

CA3 ONHW W20
88F11

URBAN/MUNICIPAL

HEALTH STATUS FACT BOOK

- social and biological indicators -



Digitized by the Internet Archive
in 2024 with funding from
Hamilton Public Library

<https://archive.org/details/healthstatusfact00unse>

Fact Book on the Health Status

of
Hamilton-Wentworth
Residents

Prepared for

The Health Priorities Analysis Unit,
Faculty of Health Sciences, McMaster University;

The Hamilton-Wentworth District Health Council;

The Department of Health Services
of the
Regional Municipality of Hamilton-Wentworth

by

Blake D. Poland
Larry W. Chambers
Anne F. Kennedy

August 1988

ACKNOWLEDGEMENTS

Many people have contributed material, comments and support to this Fact Book. The Fact Book would not have been possible without the patience and good humor of its many contributors, who cheerfully bore the brunt of our many questions and special requests. Special thanks are in order to Dr. R.J. Pickering (Interim Director, HPAU) for his supportive guidance, and to Laura Pickard (Department of Health Services) for her contribution to this and the previous Fact Book. Gail MacKean (District Health Council) has been particularly helpful and always willing to help locate information at a moment's notice. Our lifeline with the Ministry of Health, Peter Finkle, has been a delight to work with. Special thanks are also due to Sabrina Gaon (our summer student with the HPAU) who put many patient hours into the n^{th} revisions of several tables, and to Candace Sharma for the efficient and warm working environment.

Contributors to this second edition of the Fact Book, in addition to those mentioned above, have included Lily Eastridge (Ministry of Health), Drs. Barry Humphrey and Gary Miller (Hamilton Psychiatric Hospital), Drs. Macdonald and Stephenson (Henderson Hospital), the Ethnoculture Database (Ministry of Citizenship and Culture), Gloria DeSantis (Social Planning and Research Council of Hamilton and District), Terry Finch (Association of Agencies for Treatment and Development), Elsie German (District Health Council, Services for Seniors Study), Lorna Browne (Assistant Medical Officer of Health, Department of Health Services), Lou Lanza (Regional Municipality of Hamilton-Wentworth, Planning Department), Fab Angelesi (City of Hamilton, Planning Department), Dr. Ron McAuley (McMaster, Family Medicine), Jane Underwood (Director of Nursing, Department of Health Services), Dr. Lee Liaw (McMaster, Geography), Jane Worral (Hamilton-Wentworth Home Care Program), Arlene Stacie and Myrna Pond (Department of Health Services), Brian Malone (City of Hamilton Traffic Department), Wing Chan (Worker's Compensation Board, Statistical Services), and Mike DeVillaers (Addiction Research Foundation).

TABLE OF CONTENTS

	PAGE
ACKNOWLEDGEMENTS	(ii)
TABLE OF CONTENTS	(iii)
LIST OF TABLES AND FIGURES	(iv)
CHAPTER	
1. INTRODUCTION	1
1.1 Preface	2
1.2 Objectives	2
1.3 Organization of the Fact Book	3
1.4 How to use the Fact Book	4
1.5 What the Fact Book does not do	5
1.6 The Health Priorities Analysis Unit	6
2. SOCIO-DEMOGRAPHIC & BACKGROUND INFORMATION	8
2.1 Geography	9
2.2 Demographics	18
2.3 Socio-economics	31
2.4 Health care system and infrastructure	34
3. GENERAL HEALTH STATUS	39
3.1 Mortality	40
3.2 Morbidity (health care service use)	51
4. PREVENTIVE PRIMARY HEALTH CARE	64
4.1 Sexually transmitted diseases	65
4.2 Live births	66
4.3 Perinatal mortality	67
5. COMMUNITY HEALTH PROTECTION	70
5.1 Immunization	71
5.2 Dental health	73
5.3 Road trauma	74
5.4 Occupational injury	76
6. PERSONAL & SOCIAL DEVELOPMENT	78
6.1 Mental health	79
6.2 Lifestyle	81
6.3 Substance abuse	82
APPENDIX I Cautions in interpreting data	83
APPENDIX II Additional and forthcoming resources	86
APPENDIX III The Health Priorities Analysis Unit	90
APPENDIX IV Fact Book user questionnaire	99

LIST OF TABLES AND FIGURES

EXHIBIT	PAGE
II. SOCIO-DEMOGRAPHIC AND BACKGROUND INFORMATION	8
<u>Geography</u>	
2.1 McMaster Health Care Region and District Health Councils	9
2.2 Hamilton-Wentworth Census Metropolitan Area	10
2.3 Census tracts and sub-divisions, Hamilton-Wentworth	11,12
2.4 Neighbourhood name and number reference, City of Hamilton	13
2.5 Planning units, City of Hamilton	14
2.6 Town of Stoney Creek, neighbourhoods and planning divisions	15
2.7 Town of Dundas, planning unit codes	16
2.8 Hamilton postal code zones	17
<u>Demographics</u>	
2.9 1986 Census demographic information for Hamilton-Wentworth, by municipality	18-20
2.10 Age-sex pyramid for Hamilton census metropolitan area, 1986 Census of Canada	21
2.11 City of Hamilton population 0-5 (1986)	22
2.12 The elderly in Hamilton-Wentworth: demographics	23
2.13 Population 65 years and over	24
2.14 Region of Hamilton-Wentworth assessed population, by area municipality	25
2.15 Population and population shares Hamilton-Wentworth and area municipalities, 1971-1986	26
2.16 Average annual growth rates Hamilton-Wentworth and area municipalities	26

EXHIBIT		PAGE
2.17	Share of regional population growth from 1982 to 1985	27
2.18	1986 Census population (Hamilton-Wentworth) by selected mother tongue, gender and census subdivision (municipality)	28-30
2.19	Ontario school populations as of September 1986	30
<u>Socio-economic indicators</u>		
2.20	Social services use	31
2.21	Police disturbance	31
2.22	Population density	32
2.23	Household income	32
2.24	Single parent families	32
2.25	Incidence of low income, 1980	33
<u>Health care system and infrastructure</u>		
2.26	Selected health care personnel, south and central Ontario, 1984	34
2.27	Bed capacity for the elderly in Hamilton-Wentworth, 1987	35
2.28	Hamilton-Wentworth district hospital bed allocations-1987	36
2.29	Institutional accommodation, south & central Ontario, 1984	37
2.30	Health care costs, 1985	38

III. GENERAL HEALTH STATUS

Mortality

3.1	A note on the appropriate use of morbidity and mortality statistics	40,41
3.2	A note concerning Ontario Ministry of Health classification of morbidities	42
3.3	The 15 leading & leading supplementary causes of death in Ontario by frequency of occurrence: 1986	43
3.4	The 15 leading & leading supplementary causes of death in Ontario by potential years of life lost: 1986	44
3.5	Leading supplementary causes of death in Ontario in 1986 (mortality rates)	45
3.6	Directly standardized annual death rates: males 0-69, 1980-82	46
3.7	Directly standardized annual death rates: females 0-69, 1980-82	47
3.8	Mortality by age group and cause for Hamilton-Wentworth males, 1986	48
3.9	Mortality by age group and cause for Hamilton-Wentworth females, 1986	49
3.10	Mortality by age group and cause for Hamilton-Wentworth (total), 1986	50

Morbidity

3.11	Morbidity by age group and diagnostic category for Hamilton-Wentworth males, 1986	51,52
3.12	Morbidity by age group and diagnostic category for Hamilton-Wentworth females, 1986	53,54
3.13	Morbidity by age group and diagnostic category for Hamilton-Wentworth (total), 1986	55,56
3.14	Acute care separations by municipality, age group and gender (all diagnostic chapters), 1986-1987	57
3.15	Ontario Home Care Program: number of admissions, 1985-1986	58

EXHIBIT	PAGE
3.16 Ontario Home Care Program: admissions by primary diagnostic category, April 1987 - March 1988, Hamilton-Wentworth	59
3.17 Henderson health service organization: age-sex distribution total enrolment, July 1987	60
3.18 Henderson health service organization: 20 most common diagnoses by number of patients (1987)	61
3.19 Henderson health service organization: 20 most common diagnoses by number of encounters (1987)	61
3.20 New cancer cases registered by site of disease and treatment centre, 1986	62
IV. PREVENTIVE PRIMARY HEALTH CARE	63
<u>Sexually transmitted diseases</u>	
4.1 Sexually transmitted diseases: positive test results for 1987, Hamilton-Wentworth	64
<u>Live births</u>	
4.2 Live births, Wentworth county, 1986	65
<u>Abortions, stillbirths & infant deaths</u>	
4.3 Infant mortality from selected causes, Ontario, 1984	66
4.4 Stillbirths in Hamilton-Wentworth, 1987	67
4.5 Infant deaths by age and gender, Hamilton-Wentworth, 1986	67
4.6 Therapeutic abortions: age by marital status, Hamilton-Wentworth, 1987	67
4.7 Therapeutic abortions: gestation period by age, Hamilton-Wentworth, 1987	68

EXHIBIT	PAGE
V. COMMUNITY HEALTH PROTECTION	69
<u>Immunization</u>	
5.1 Hamilton-Wentworth school immunization status summary 1987-1988	70-72
<u>Dental health</u>	
5.2 Average dental decay, missing and filled teeth per individual in Hamilton-Wentworth and Ontario, ages 5-13, 1982 and 1985	72
<u>Road trauma</u>	
5.3 Time of day versus traffic volume	73
5.4 Time of day versus collision rate	73
5.5 Pedestrian involvement in vehicular collisions	74
5.6 Collisions by municipality	74
5.7 Injury status by category	74
<u>Occupational injury</u>	
5.8 Worker's Compensation Board of Ontario compensation claims initially settled in 1987: number of fatal & non-fatal claims and working days lost by occupation for all industries, Hamilton	75,76
VI. PERSONAL AND SOCIAL DEVELOPMENT	77
<u>Mental health</u>	
6.1 Admissions to psychiatric units by age group, hospital, and gender, Hamilton-Wentworth Region, April 1986 - March 1987	78
6.2 Hamilton Psychiatric Hospital: discharges by diagnosis	79
<u>Lifestyle</u>	
6.3 Percentage of Ontario residents practising positive and negative health behaviours, 1985	80
<u>Substance abuse</u>	
6.4 Types of problem substances and agency	81

Introduction

Chapter 1

1.1 PREFACE

Finagle's Laws state that:

- (1) The information you have is not what you want.
- (2) The information you want is not what you need.
- (3) The information you need is not what you can obtain.
- (4) The information you can get costs more than you want to pay

This second edition of the Fact Book represents our second attempt to break these laws for health status information in the Hamilton-Wentworth Region. The Fact Book was compiled for health professionals and others in the Region who are responsible for setting priorities for planning health care promotion and education activities. As Tugwell and his colleagues (1985) point out in their article "The Measurement Iterative Loop: A Framework for the Critical Appraisal of Need, Benefits and Costs of Health Interventions", the measurement iterative loop in its logical progression begins with quantifying the burden of illness, the topic of this Fact Book. This Fact Book does not specifically address the subsequent steps in the loop: identifying likely causes of illness, validating interventions that prevent or ameliorate it, and evaluating their efficiency. However, this and future editions of the Fact Book could also be used in the final steps of the loop, that is to monitor the application of these health interventions.

1.2 OBJECTIVES OF THE FACT BOOK

The objectives of the Fact Book are:

- (1) to provide educators, health planners and service providers in Hamilton-Wentworth easy access to updated health status information that is routinely collected by health providers and others both in the Region (for example, hospitals) and outside the Region (for example, The Ministry of Health of Ontario).
- (2) to facilitate the communication of reports and study results on health status and health promotion in Hamilton-Wentworth.
- (3) to provide an overview of some of the available health status information and to enable the reader to track down the original source before drawing conclusions.

Truly accessible data is information that is used. For this it must be not only available, but also user friendly. In the inevitable tradeoff between time constraints and user friendly (graphic) interpretations of the raw data, it has been expedient to present the data much as it appeared in the original source.

Yet, although basically a compilation of tables and figures from other reports and data sets, the Fact Book does contain a number of tables and graphs that have been synthesized from the original material. Occasionally, we have offered a few editorial comments regarding the interpretation or reliability of the information provided. It is anticipated that future editions of the Fact Book will place greater emphasis on the interpretation of available information and on the establishment of priority issues based on available data.

The data included in the Fact Book were obtained over a three year period through contacts with representatives in a number of agencies. Each table and figure lists the data source. The Fact Book does not always disaggregate the data beyond the Regional level into, for example, municipalities or neighbourhoods. However, further disaggregation, for example, by neighbourhood or income status, is in some instances available from the sources referenced throughout the Fact Book.

The Fact Book was heavily dependent upon hospital based routinely collected health data. Future editions of the Fact Book will devote greater attention to data from other sectors of the health system.

We encourage readers (users) of the Fact Book to submit their comments on the data presented and to submit additional reports and study results that they feel should be included in the next edition. Our plan is to publish this book when the accumulation of important new data justifies this.

1.3 ORGANIZATION OF THE FACT BOOK

In this (second) edition of the Fact Book, material has been organized into a number of sections, in keeping with the format employed by Larry Chambers for Health Profiles of the Citizens of Ontario (published by the Canadian Public Health Association in 1987). Reference material on administrative boundaries, health care infrastructure, and demographic and socio-economic data follow the introduction. This material is to assist in the interpretation of the health-related data that follow. The section on general health status of the citizens of Hamilton-Wentworth includes both mortality and morbidity (health service utilization, including cancer cases). In the section on Preventive Primary Health Care, local data on sexually transmitted diseases, live births and perinatal mortality are presented. The Community Health Protection section covers immunization status, dental health, road trauma and occupational injury; while the Personal and Social Development section includes material on the frequency and types of mental health problems, lifestyle/health behaviour and substance abuse.

1.4 HOW TO USE THE FACT BOOK

The Fact Book attempts to provide global information about health status or the burden of illness in Hamilton-Wentworth. In other words, the Fact Book does what epidemiologists are trained not to do: to compile data banks. That is health status and burden of illness data should only be collected and compiled if they will address researchable or knowable questions.

In order to protect you the reader from falling into the data bank trap in using this Fact Book, we recommend you ask yourself the following questions when consulting the Fact Book:

(1) Is the attribute selected a relevant measurement?

For example, the use of mortality rates as an indicator of burden due to arthritis and musculo-skeletal problems tells us nothing about the magnitude of the associated pain and disability. Even when mortality is relevant it may give an incomplete picture. For example, for hypertension, burden includes distress and disability due to cardiac failure and stroke.

(2) Are the measurement methods accurate?

Measurement of the health attribute or health status indicator must be accurate. Cause of death is often inaccurate and most components of morbidity require specially designed surveys. Caution should be exercised when surrogate measures such as utilization or supply are used as indicators of burden because they have been shown to be at variance with good survey data in some situations. Where good evidence is not available, multiple sources of data should be checked (See Chambers et.al. 1983).

(3) Are the results straightforward to interpret and apply?

Summary statistics without sophisticated mathematical transformations or statistics for indicators such as mortality rates, the proportion suffering a specific disability, or mean blood pressure (with ranges or confidence limits as appropriate), are usually sufficient. In understanding the burden of illness at the Regional level, the actual number with the health problem is often the most important statistic, rather than proportions or rates. Proportions and rates, including those adjusted for age, sex and income, are important when comparing neighbourhoods or for comparisons of Hamilton-Wentworth with other regions.

Further cautions in interpreting the data provided in the Fact Book are listed in Appendix I. The advantages and disadvantages of mortality/morbidity data, of utilization/rates-under-treatment data and of social indicators are listed (Chambers et.al. 1983)

1.5 WHAT THE FACT BOOK DOES NOT DO

Data From Other Jurisdictions: In compiling this Fact Book, we have refrained from including data from jurisdictions other than the Hamilton-Wentworth Region except for purposes of comparison. Regional and provincial data have been provided in some cases to provide context for Hamilton-Wentworth values. However, comparisons should be made with caution, as socio-demographic and other characteristics typically vary from one geographic unit to the next, and may confound apparent differences in health status (as measured). Secondary data analyses, however, can and should be used to provide further information of the health status and burden of illness of Hamilton-Wentworth citizens. Age-standardized ratios are to be preferred in comparing the municipality to provincial averages. A note on the interpretation of standardized mortality (and morbidity) ratios is to be found at the beginning of Chapter 3.

Quality of Fact Book Data: In compiling the data for this Fact Book, we have relied on bona fide sources. However, we urge the user not to stop here. If these data are to be used for decision making, we urge you to satisfy yourself about the quality of the data reported here by contacting the persons we have indicated who can provide further information about these data. Appendix 1 is provided to assist you to evaluate the quality of these data.

Why the Phrase "High Risk" is Misleading: Health providers have overused the phrase "high risk". Often data such as those presented here are used to identify "High Risk" populations. The phrase "high risk", however, can refer to at least three concepts: avoidable versus unavoidable illness; community burden versus individual burden; and, point of view.

Firstly, unavoidable burden of illness comprises disability, symptoms and mortality for which no efficacious prevention or cure currently exists (such as AIDS and Alzheimer's disease). Resource allocation in these cases should focus on research into etiology, prevention and cure, and not just on care of current victims. The avoidable burden of illness comprises disability, symptoms and mortality for which efficacious prevention or therapy currently exists (such as the prevention of rubella by immunization and prevention of lung cancer by smoking cessation). Resource allocation here should focus on the provision of health care of proven efficacy or on research into community effectiveness and efficiency of a known efficacious intervention.

Second, the distinction between community and individual burden of illness is an important one. For example, the majority of members of a community may have a "mild" illness such as influenza that results in perhaps a two-week interruption in one's daily routine. The total community impact or burden of illness is quite large when the total number of lost working days is calculated. On the other hand, the individual burden of an illness may be devastating but only affect a few members of the community, such as is the case with AIDS.

Third, definitions of "high risk" are influenced by one's point of view. The need for a health intervention is usually determined by a health planner or provider of care. Consumers of health care (patients) may or may not desire such interventions. For example, a person who is 90 and has lung cancer may not want certain kinds of health care.

Therefore we urge that the Fact Book be used for quantifying some avoidable need in Hamilton-Wentworth, for estimating the burden of certain illnesses on the community as a whole, and for use in estimating the need for interventions by health planners and providers.

1.6 THE HEALTH PRIORITIES ANALYSIS UNIT (HPAU)

The HPAU is a health information unit in the Educational Centre for Aging and Health (McMaster University) which is actively establishing working relationships with information sources in the Community, the University and Regional Government. Its role is to foster and promote advances in education and research in health and health care by encouraging the development of systems for improving access to and use of reliable information concerning health needs and trends in the community.

Making key health information accessible to those who will find it useful (education, planning etc) is integral to the mandate of the HPAU. The Fact Book on the Health Status of Hamilton-Wentworth Residents represents a crucial first step in this process. As previously stated, it is our intention that the Fact Book be expanded over time to be not only more comprehensive in its coverage of local health information, but also to do so with greater depth of analysis and critical appraisal. In this manner, the process of determining and prioritizing community health needs can be undertaken.

Additional information regarding the mandate, organization and activities of the HPAU is contained in Appendix III.

REFERENCES

Chambers LW 1987. Health Profiles of the Citizens of Ontario. Ottawa: The Canadian Public Health Association.

Chambers LW, Woodward C. 1983. Guide to Health Needs Assessment: A Critique of Available Sources of Health and Health Care Information (revised edition). Ottawa: The Canadian Public Health Association.

Tugwell P, Bennett KJ, Sackett DL, Haynes BN. 1985. The measurement iterative loop: a framework for the critical appraisal of need, benefits and costs of health interventions. Journal of Chronic Disease. 38(4):339-351.

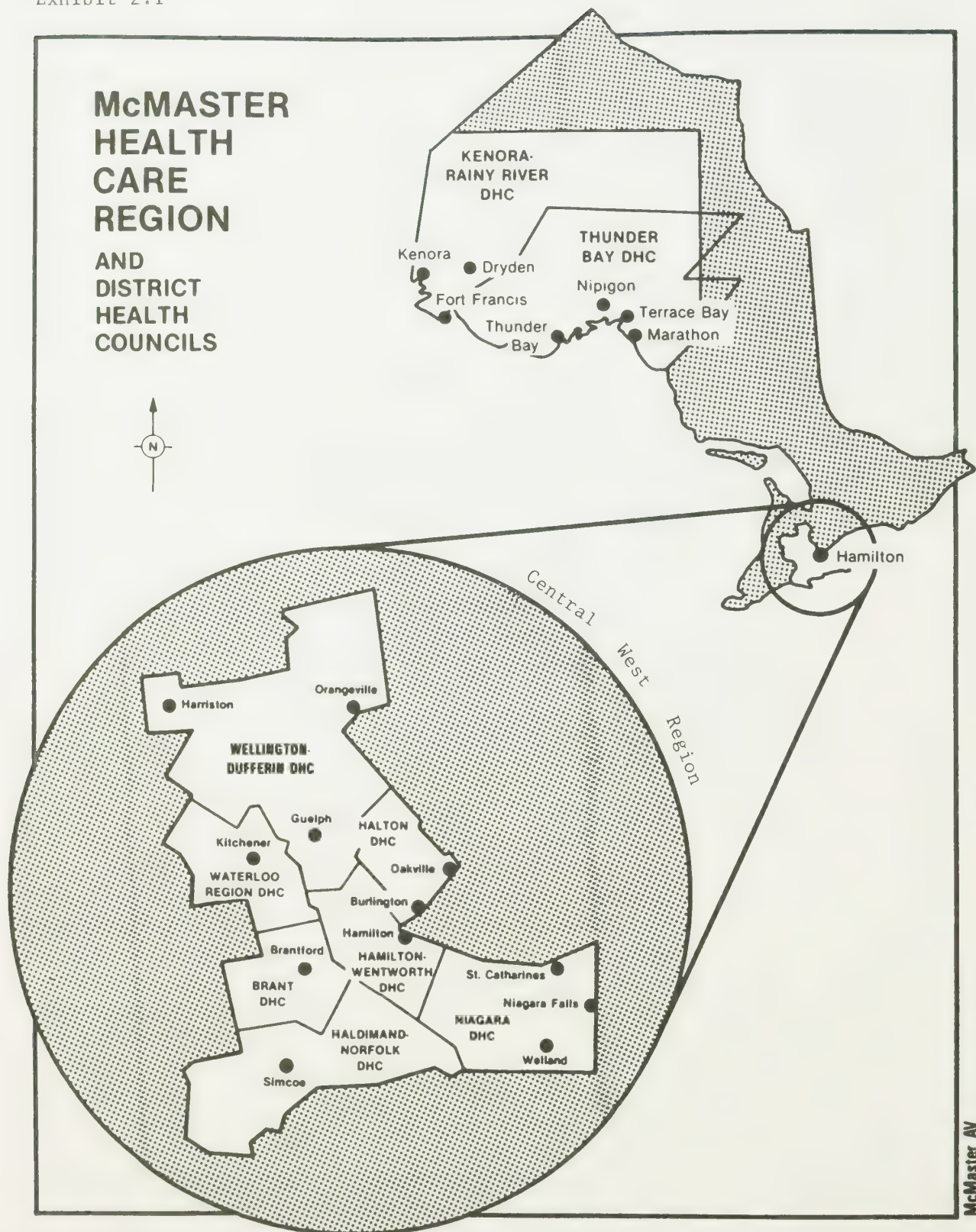
Socio-demographic

and background information

- geography
- demographics
- socio-economics
- health care system and infrastructure

Chapter 2

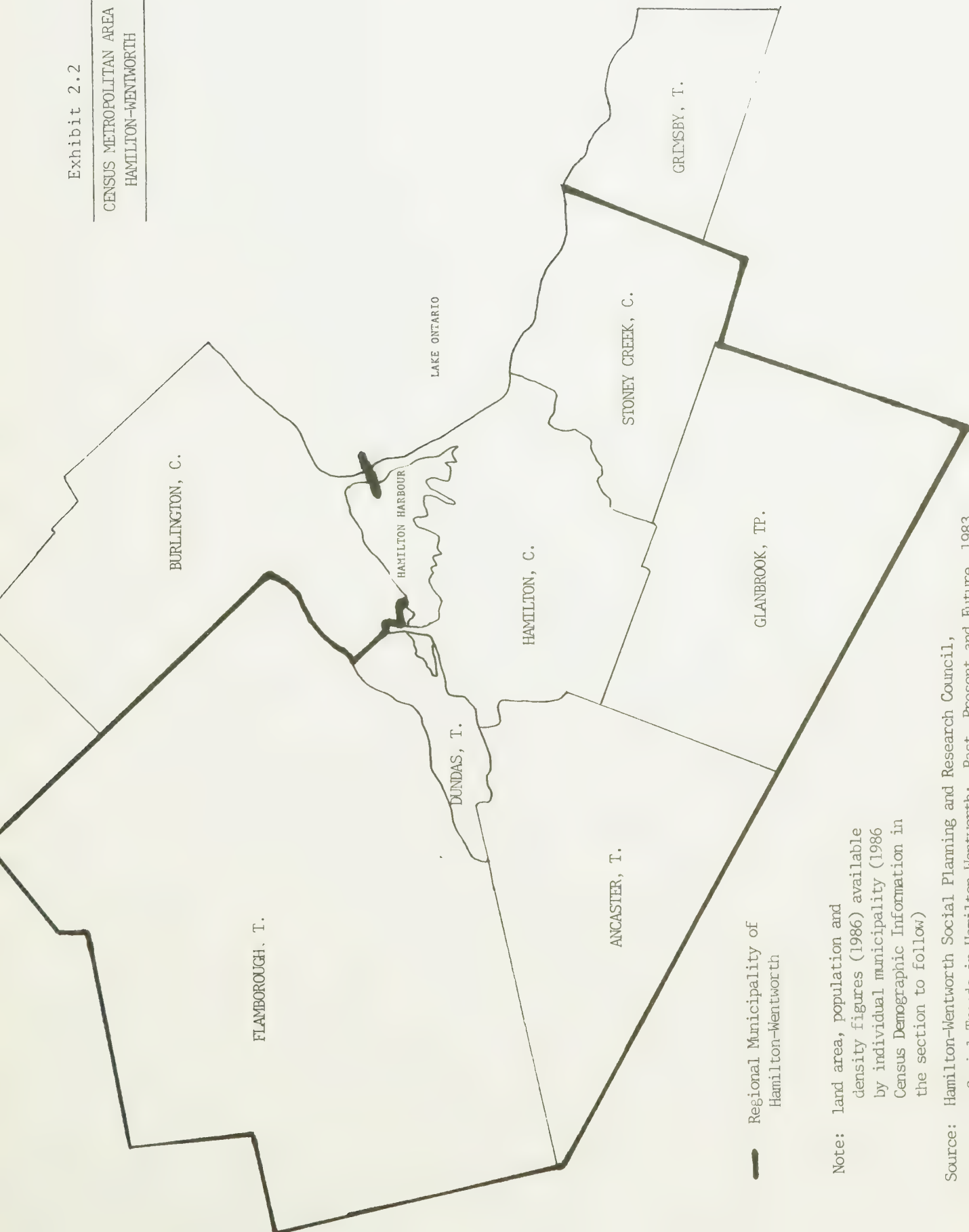
Exhibit 2.1



Source: Learning Resources, McMaster University Faculty of Health Sciences, Health Science Briefs.
Volume I: Overview, 1987.

Exhibit 2.2

CENSUS METROPOLITAN AREA HAMILTON-WENTWORTH



Note: land area, population and density figures (1986) available by individual municipality (1986 Census Demographic Information in the section to follow)

Source: Hamilton-Wentworth Social Planning and Research Council, Social Trends in Hamilton-Wentworth: Past, Present and Future, 1983.

CENSUS TRACTS AND SUBDIVISIONS, HAMILTON-WENTWORTH

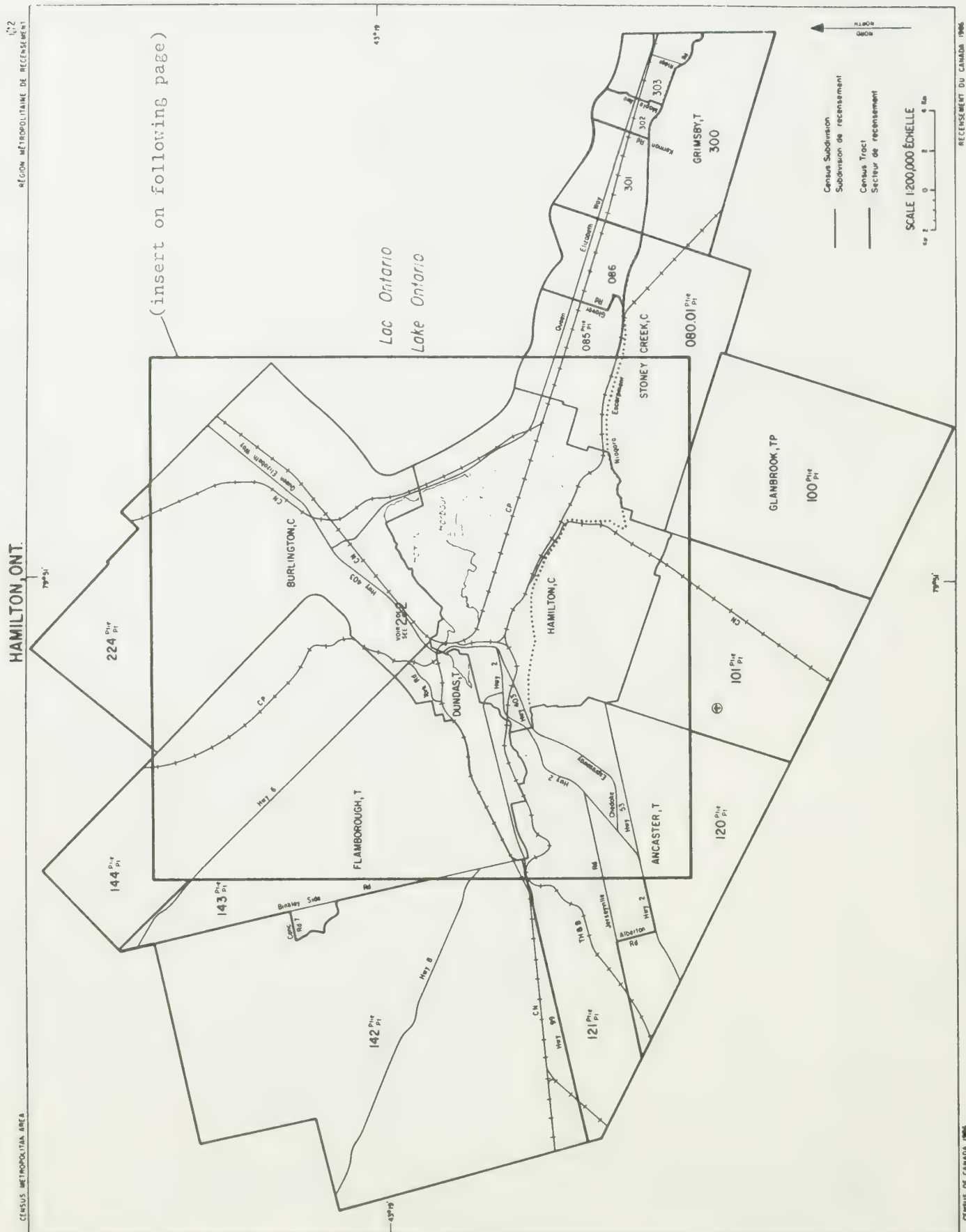
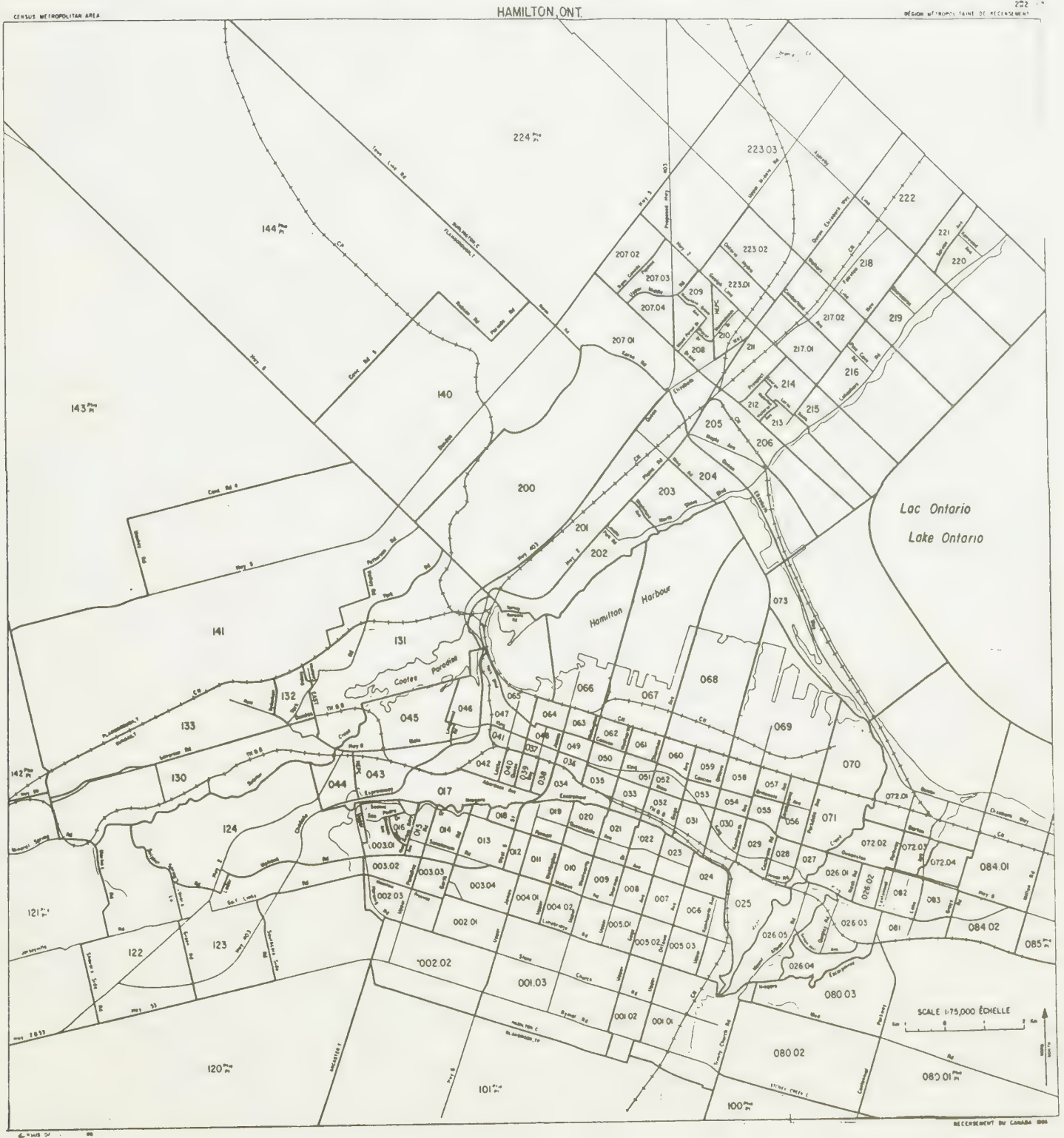
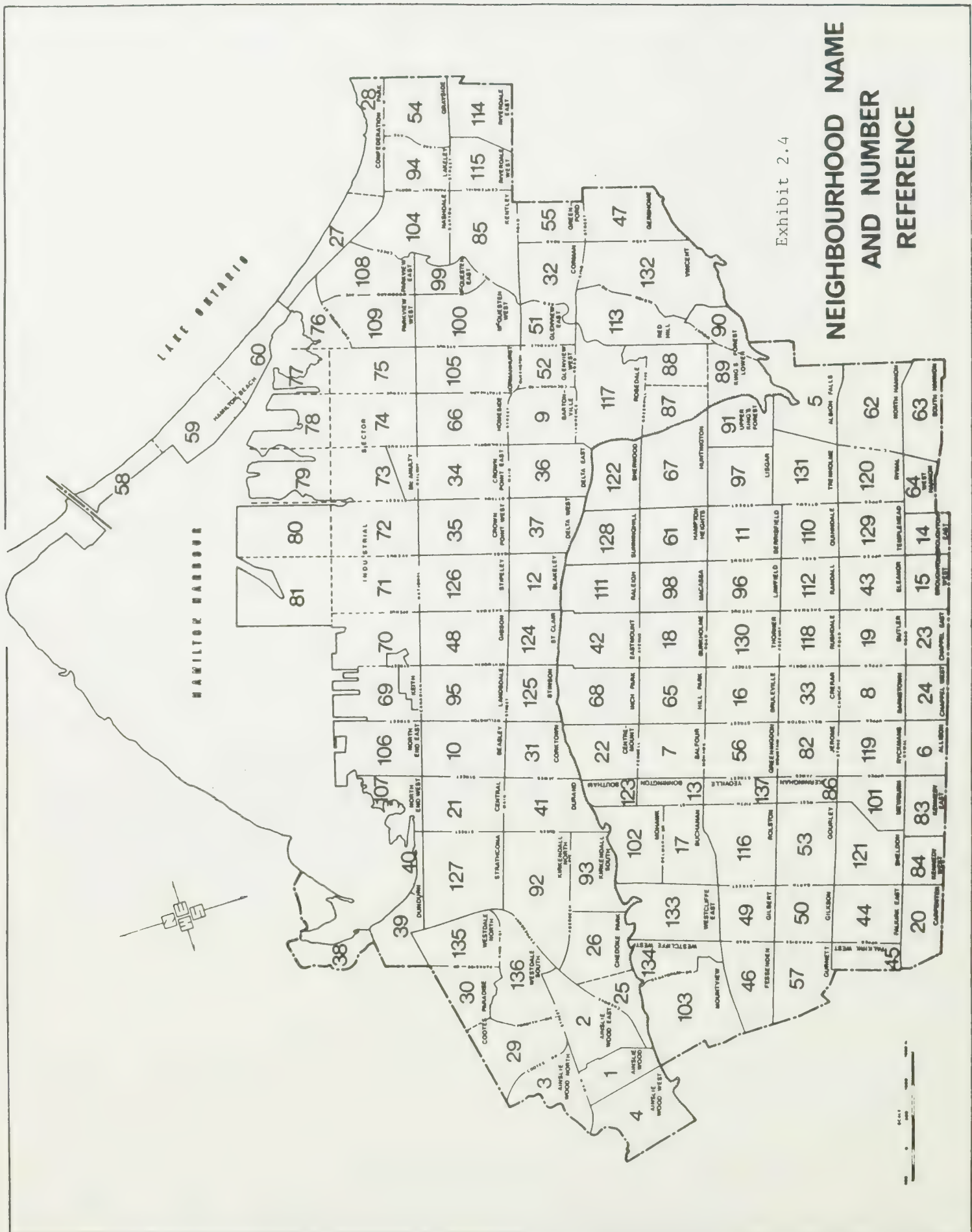


Exhibit 2.3 continued
CENSUS TRACTS AND SUBDIVISIONS, HAMILTON-WENTWORTH



* Insert from previous page.



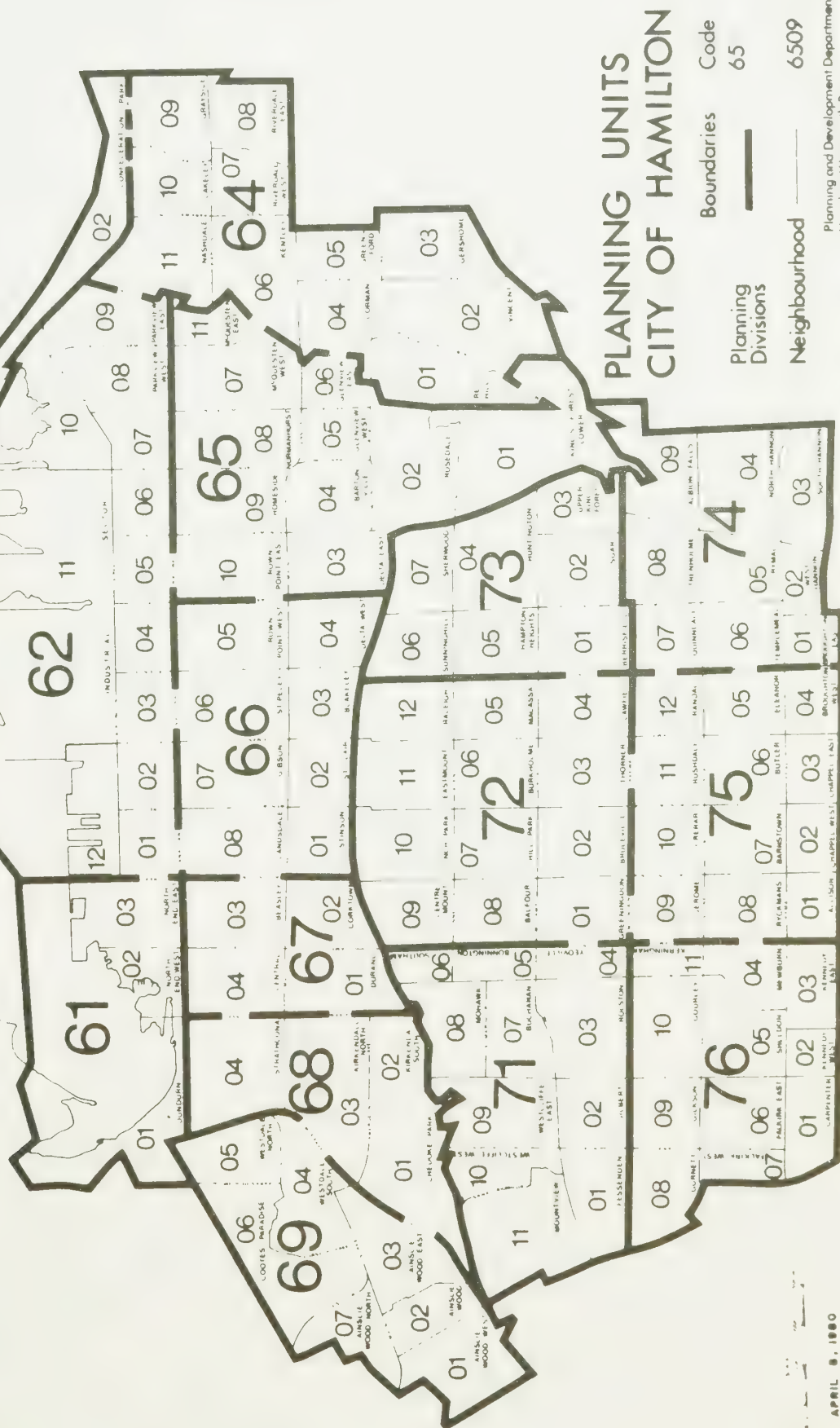
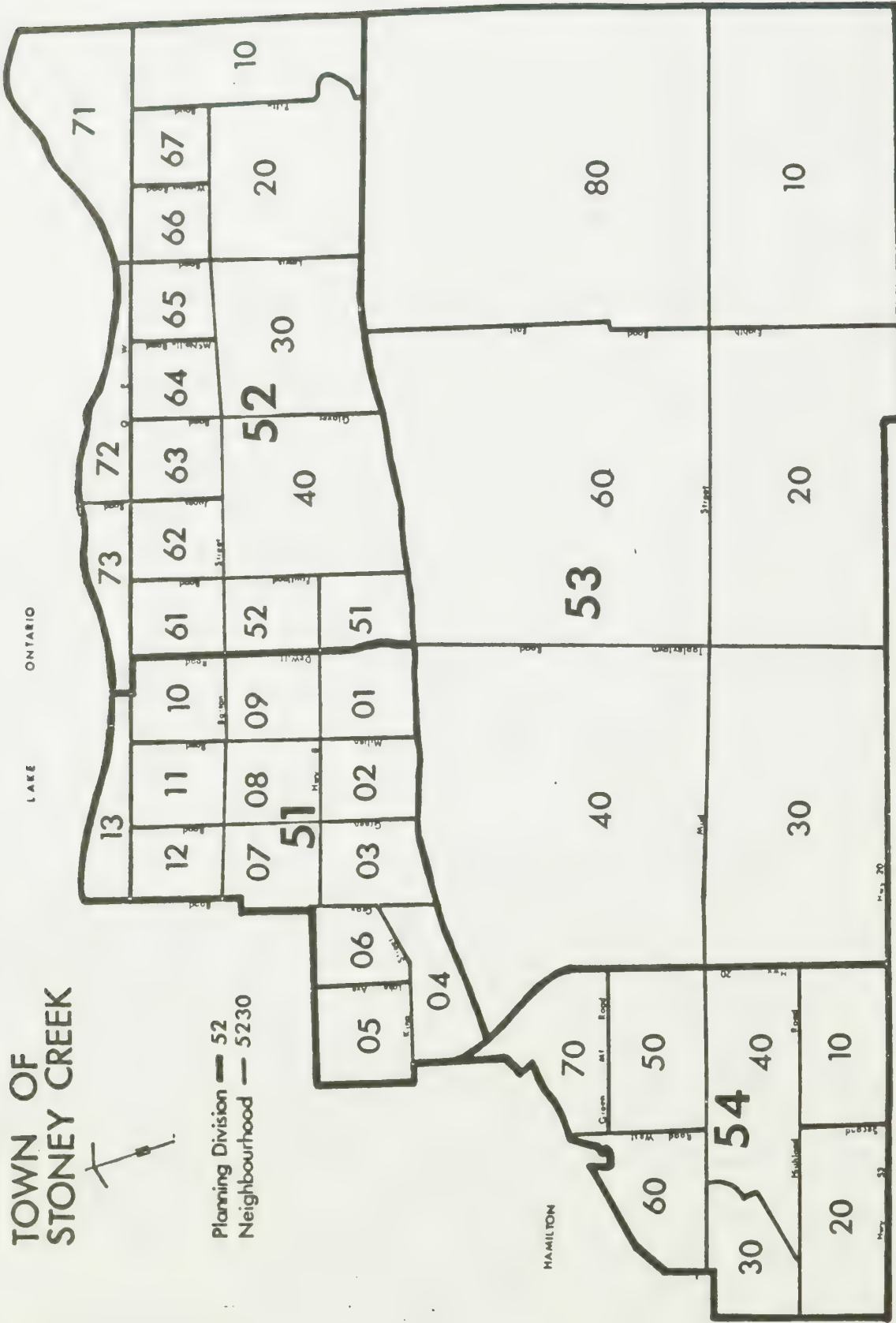


Exhibit 2.6

TOWN OF STONEY CREEK



Planning Division — 52
Neighbourhood — 5230



PLANNING UNIT CODES TOWN OF DUNDAS

LEGEND	
PLANNING DIVISION	BOUNDARY CODE
NEIGHBOURHOOD	21
	2101

P O BOX 800 NEW YORK, NY 10001-0800
 TEL: 212 693 6000 FAX: 212 693 6001
 WWW: WWW.NYU.EDU

APRIL 3, 1960

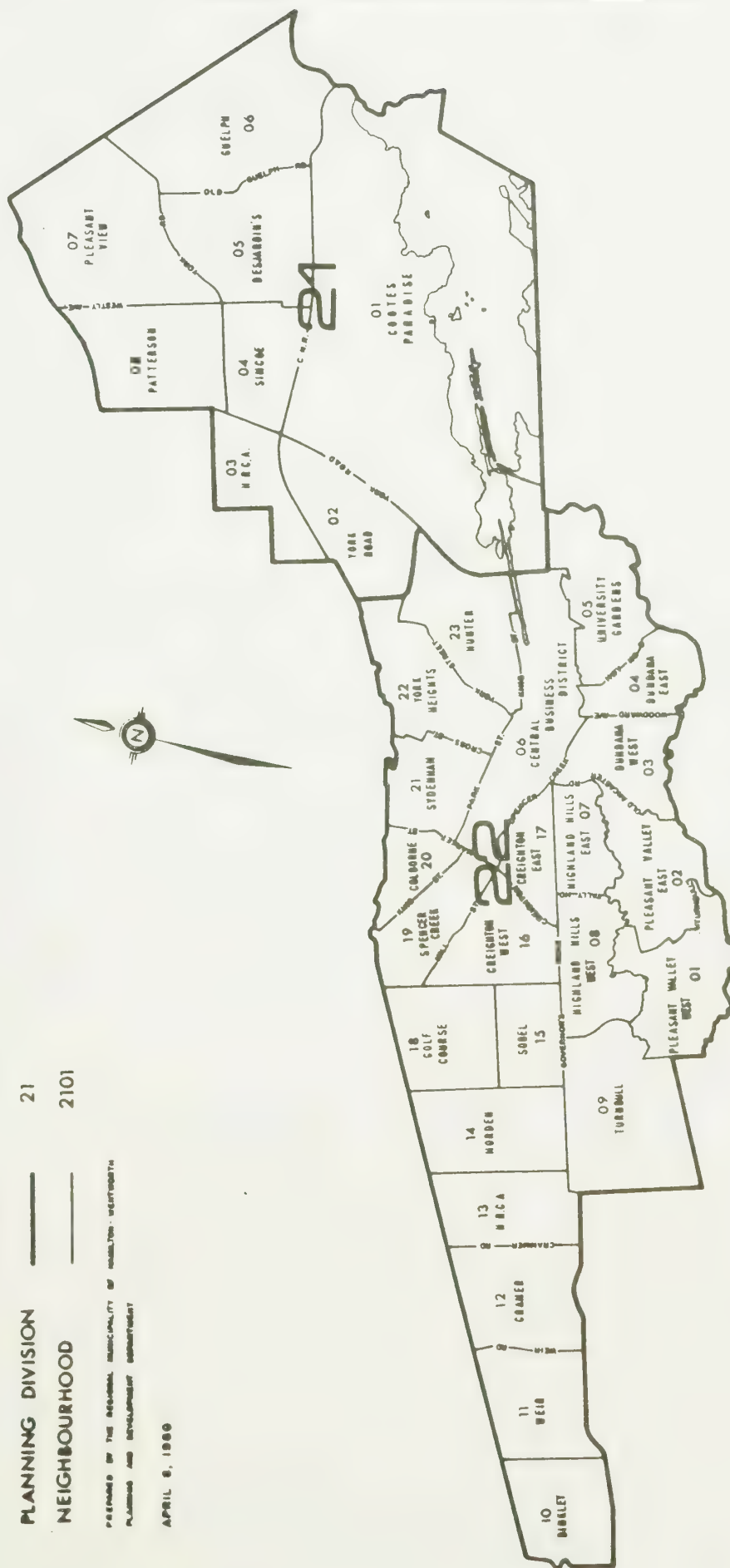
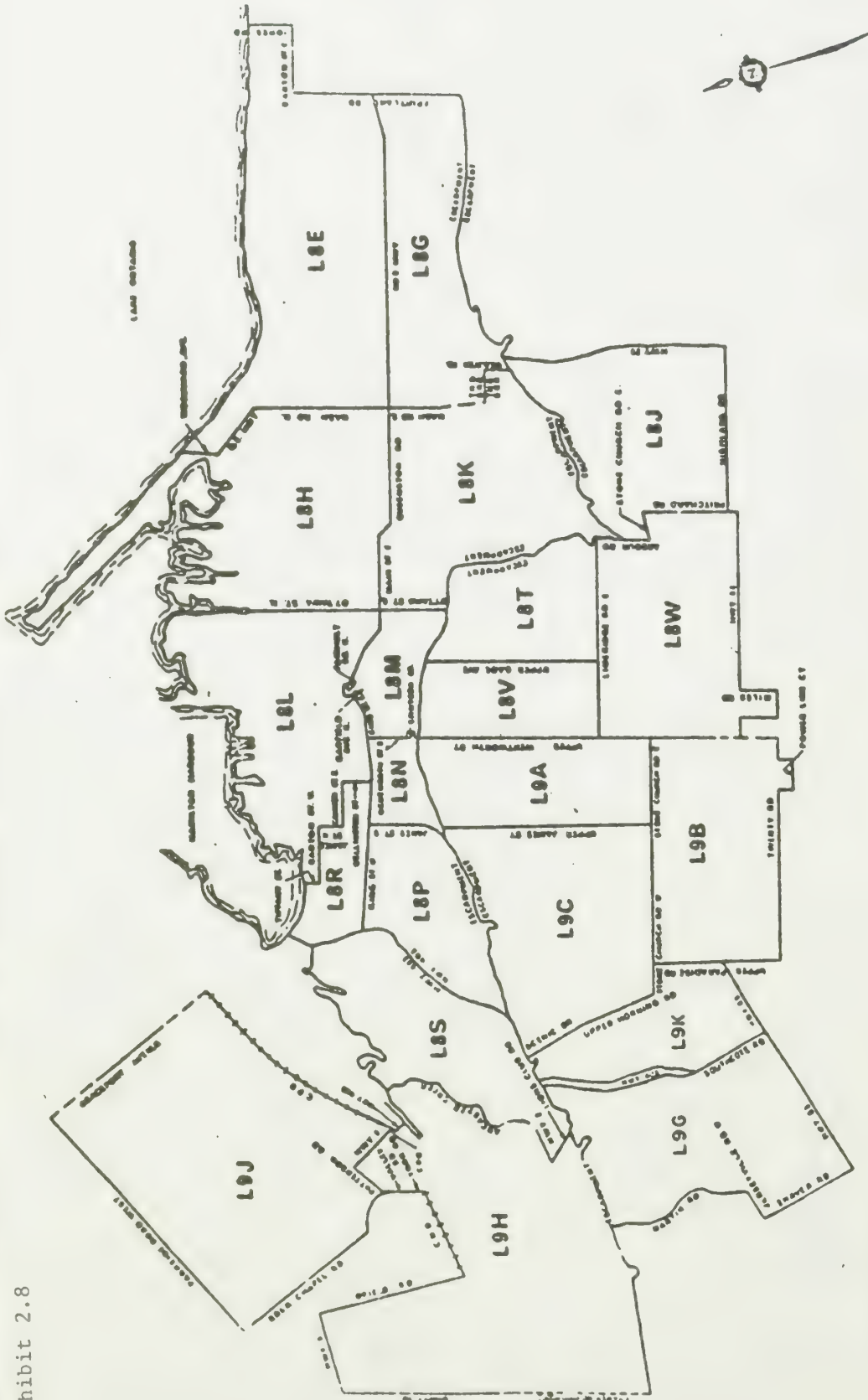


Exhibit 2.8



HAMILTON, ONTARIO Delivery area and forward sortation areas Secteur de distribution et régions de tri d'acheminement (Postal Code Zones)

© 1980
 CANADA POST
 PUBLISHED BY THE POSTAL SERVICE OF CANADA



1986 CENSUS DEMOGRAPHIC INFORMATION FOR HAMILTON-WENTWORTH, BY MUNICIPALITY

Characteristics	Hamilton	Ancaster, T	Burlington, C	Dundas, T	Flamborough, T	Glanbrook, TP	Grimsby, T	Hamilton, C	Stoney Creek, C
POPULATION/LAND AREA									
Population, 1981(1)	542,095	14,428	114,853	19,586	24,470	9,765	15,797	305,434	36,762
Population, 1986	557,029	17,264	116,675	20,118	26,142	9,592	16,956	306,728	43,554
Population percentage change, 1981-1986	2.8%	19.7%	1.6%	2.1%	6.8%	-1.8%	7.3%	0.1%	18.5%
Land area in square kilometres, 1986	1 358.50	174.57	177.41	24.42	489.90	202.74	68.12	122.69	98.65
Population density per square kilometre, 1986	410.0	98.9	657.7	823.8	53.4	47.3	248.9	2 500.0	441.5
POPULATION CHARACTERISTICS									
Total population	557,030	17,265	116,675	20,120	26,145	9,595	16,955	306,730	43,555
by sex and age									
Male, total	272,190	8,695	57,385	9,570	13,300	4,935	8,485	148,100	21,730
0 - 4 years	18,940	635	3,805	685	1,060	325	710	9,960	1,760
5 - 9 years	18,250	710	3,925	645	1,040	385	595	9,235	1,730
10 - 14 years	19,210	690	4,550	635	1,100	405	665	9,480	1,695
15 - 19 years	21,485	705	5,020	760	1,120	425	715	11,005	1,735
20 - 24 years	24,660	650	4,985	800	1,000	390	660	14,530	1,645
25 - 34 years	45,335	1,055	8,760	1,420	1,975	755	1,315	26,355	3,690
35 - 44 years	38,800	1,495	9,090	1,430	2,165	815	1,285	19,000	3,530
45 - 54 years	30,015	1,035	7,005	1,070	1,510	570	985	15,460	2,395
55 - 64 years	29,040	960	5,780	1,035	1,300	495	760	16,790	1,910
65 - 74 years	17,650	555	3,095	680	745	265	505	10,650	1,150
75 years and over	8,800	205	1,380	415	285	100	290	5,630	490
Female, total	284,840	8,570	59,290	10,545	12,845	4,655	8,470	158,630	21,825
0 - 4 years	18,150	640	3,650	685	1,005	335	9,635	9,635	1,635
5 - 9 years	17,285	615	3,790	605	925	350	535	8,860	1,605
10 - 14 years	18,445	580	4,270	645	1,020	395	545	9,220	1,725
15 - 19 years	20,830	670	4,755	730	1,040	400	670	10,915	1,645
20 - 24 years	24,560	570	4,865	715	915	315	615	14,965	1,620
25 - 34 years	46,905	1,240	9,065	1,635	2,030	710	1,365	26,875	3,975
35 - 44 years	38,990	1,460	9,785	1,525	2,170	770	1,260	19,570	3,445
45 - 54 years	30,220	990	6,955	1,060	1,380	535	925	16,225	2,150
55 - 64 years	30,905	980	5,845	1,155	1,320	480	800	18,360	1,960
65 - 74 years	21,185	535	3,770	840	685	250	575	13,310	1,230
75 years and over	16,335	280	2,545	1,000	360	120	505	10,695	830
by marital status									
Single (never married), total	223,685	6,960	46,635	7,750	10,795	3,975	6,735	123,230	17,625
Single (never married), 15 years of age and over	113,415	3,090	22,660	3,920	4,645	1,785	3,010	66,835	7,475
Married (includes separated)	288,230	9,585	63,015	10,505	14,210	5,225	9,165	152,895	23,635
Widowed	28,890	530	4,625	1,420	785	275	810	19,910	1,630
Divorced	15,105	190	2,400	450	355	120	240	10,695	665

ECONOMIC FAMILY

Refers to a group of two or more persons who live in the same dwelling and are related to each other by blood, marriage or adoption. Persons living common-law are considered, for census purposes, as now married regardless of their legal marital status; they accordingly appear as married couples in the economic family tables.

CENSUS FAMILY

Refers to a husband and a wife (with or without children who have never married, regardless of age), or a lone parent of any marital status, with one or more children who have never married, regardless of age, living in the same dwelling. For census purposes, persons living in a common-law type of arrangement are considered as now married, regardless of their legal marital status; they accordingly appear as a husband-wife family in most census family tables.

Definitions:

- * Areas included in the Hamilton CMA, but not in the Regional Municipality

1986 CENSUS DEMOGRAPHIC INFORMATION FOR HAMILTON-WENTWORTH, BY MUNICIPALITY

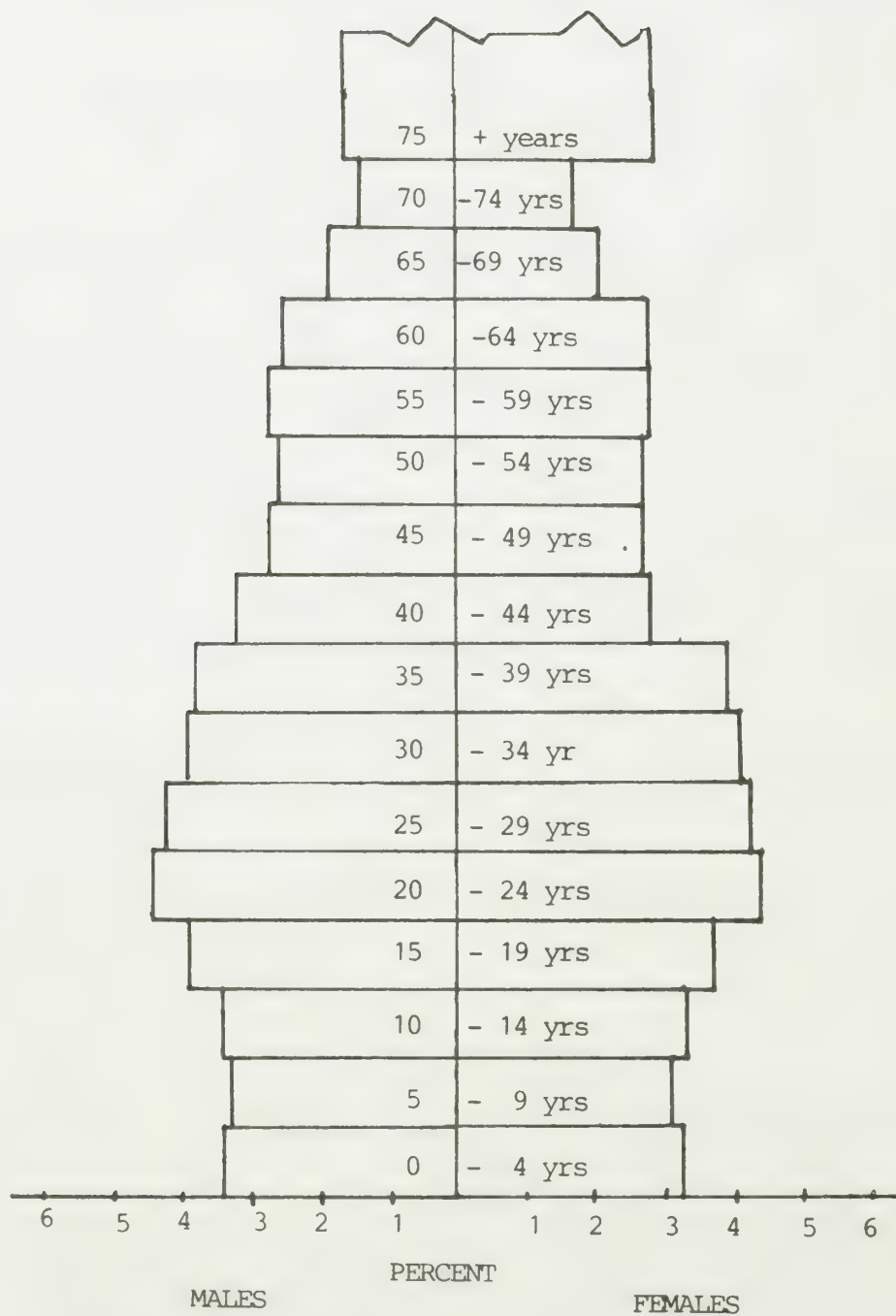
Characteristics	Hamilton	Anchester, T	Burlington, C	Dundas, T	Flamborough, T	Glanbrook, TP	Grimsby, T	Hamilton, C	Stoney Creek, C
	CMA/RMR								
CENSUS FAMILY CHARACTERISTICS (concluded)									
Children in Census Families									
Total number of children at home.....	188,485	6,580	41,730	6,510	9,985	3,690	6,150	97,450	16,280
by age									
Under 6 years of age	43,480	1,545	8,865	1,640	2,410	780	1,510	22,745	3,985
6 - 14 years	64,955	2,285	14,845	2,140	3,650	1,375	2,165	32,485	5,015
15 - 17 years	23,840	795	5,670	895	1,280	500	775	12,020	2,005
18 - 24 years	43,305	1,575	10,150	1,525	2,105	815	1,380	22,355	3,410
25 years and over	12,785	380	2,195	400	540	220	320	7,845	880
Average number of children per census family(4)	1.2	1.3	1.3	1.2	1.4	1.4	1.3	1.2	1.3
Persons in Private Households									
by census family status and living arrangements									
Total number of persons.....	548,825	17,200	115,745	19,255	25,880	9,530	16,710	301,450	43,155
Number of non-family persons	71,820	1,030	11,190	2,170	1,815	600	1,435	50,370	3,310
Living with relatives (5)	15,900	335	2,520	470	525	205	325	10,470	1,050
Living with non-relatives only	12,615	200	2,185	350	425	135	270	8,525	525
Living alone	43,405	480	6,490	1,355	865	260	835	31,375	1,730
Number of family persons	477,005	16,170	104,550	17,085	24,060	8,930	15,280	251,075	39,850
Average number of persons per census family.....	3.1	3.3	3.2	3.1	3.3	3.3	3.2	3.0	3.3
Total number of persons 65 years and over.....	58,535	1,575	10,275	2,215	2,030	735	1,690	37,560	3,455
Number of non-family persons 65 years and over	23,510	425	3,510	845	600	185	600	16,165	1,180
Living with relatives (5)	5,350	145	835	190	180	75	130	3,400	395
Living with non-relatives only	1,130	35	110	40	30	10	40	825	45
Living alone	17,035	245	2,560	615	390	100	435	11,940	745
Number of family persons 65 years and over...	36,025	1,145	6,765	1,370	1,435	550	1,090	21,395	2,280
ECONOMIC FAMILY CHARACTERISTICS									
Economic families									
Total number of economic families in private households.....	194,215	4,925	33,015	5,550	7,260	2,685	4,715	83,920	12,140
by size of family									
2 persons.....	58,405	1,625	11,810	2,165	2,435	870	1,615	35,070	3,820
3 persons.....	35,205	1,085	7,510	1,225	1,525	580	1,040	19,515	2,730
4 persons.....	38,065	1,415	9,105	1,460	1,360	750	1,360	18,415	3,585
5 or more persons	21,535	805	4,595	695	1,325	485	705	10,915	2,005
Persons in Private Households									
Total.....	548,825	17,200	115,740	19,260	25,880	9,530	16,715	301,445	43,160
Number of unattached individuals	36,015	890	8,675	1,705	1,295	395	1,105	39,905	2,255
Number of economic family persons.....	482,805	16,505	107,065	17,555	24,585	9,135	15,605	261,545	40,905
Average number of persons per economic family...	3.2	3.4	3.2	3.2	3.4	3.4	3.3	3.1	3.4

Source: Statistics Canada, Census Tract Profiles: Hamilton, Supply and Services Canada, February 1988 [Table 2]

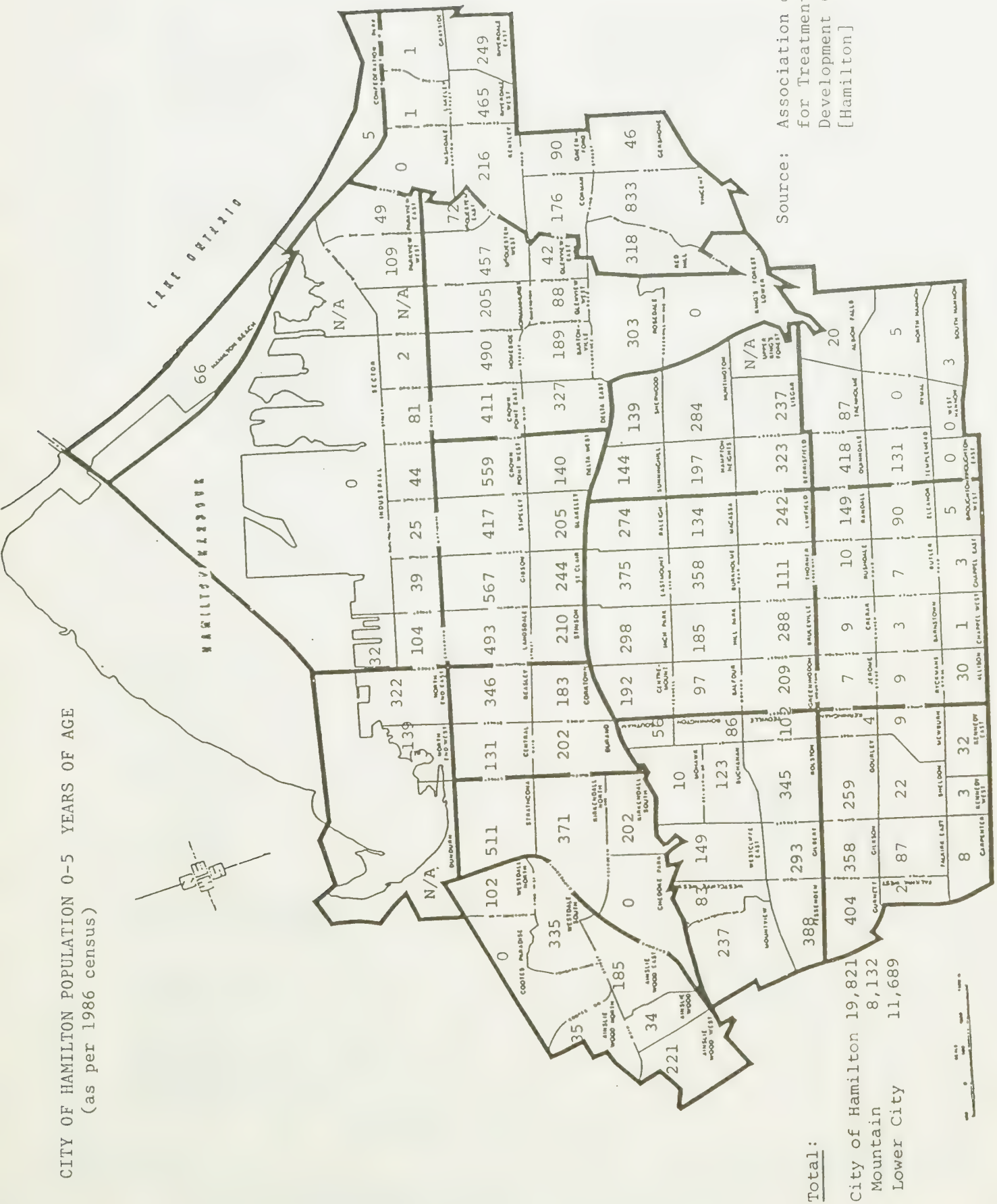
Characteristics	Hamilton	Ancester, T	Burlington, C	Dundas, T	Flamborough, T	Glanbrook, TP	Grimby, T	Hamilton, C	Stoney Creek, C
DWELLING CHARACTERISTICS									
Total number of occupied private dwellings.....	201,330	5,460	40,120	7,005	8,215	2,975	5,625	117,930	13,995
by tenure.....									
Owned.....	130,135	5,050	28,175	4,985	6,955	2,635	4,605	66,755	10,970
Rented.....	71,190	410	11,940	2,020	1,265	335	1,020	51,170	3,020
On reserve (2).....	-	-	-	-	-	-	-	-	-
by type of dwelling.....									
Single-detached house.....	120,305	5,165	24,175	4,675	7,220	2,805	4,520	61,485	10,255
Apartment, 5 or more storeys.....	38,210	5	7,190	960	365	-	170	27,875	1,630
Movable dwelling.....	65	-	5	-	45	-	5	10	-
All other types (3).....	42,740	290	8,745	1,370	570	165	940	28,560	2,105
HOUSEHOLD CHARACTERISTICS									
Private Households.....									
Total number of private households.....	201,325	5,460	40,120	7,005	8,220	2,975	5,630	117,930	13,990
by size of household.....									
1 person.....	43,400	490	6,490	1,355	865	260	835	31,375	1,730
2 persons.....	60,960	1,635	12,015	2,215	2,450	870	1,560	36,280	3,850
3 persons.....	36,030	1,080	7,665	1,265	1,555	595	1,045	20,085	2,755
4 - 5 persons.....	54,300	2,005	12,725	1,995	2,915	1,090	1,850	26,630	5,095
6 - 9 persons.....	6,535	240	1,215	190	435	180	240	3,500	565
10 or more persons.....	95	5	15	-	10	-	5	60	5
by number of families.....									
Non-family household.....	50,285	580	7,555	1,560	1,035	315	960	36,285	1,990
1 census family.....	148,920	4,885	32,170	5,395	7,090	2,620	4,600	80,415	11,805
2 or more census families.....	2,120	50	395	55	95	35	65	1,220	195
Persons in Private Households.....									
1986.....	548,925	17,200	115,745	19,255	25,880	5,530	16,710	301,445	43,155
Average number of persons per household.....	2.7	3.2	2.9	2.7	3.1	3.2	3.0	2.6	3.1
CENSUS FAMILY CHARACTERISTICS									
Census families.....									
Total number of census families in private households.....	153,180	4,930	32,960	5,505	7,280	2,700	4,735	82,870	12,205
by size of family.....									
2 persons.....	62,230	1,715	12,410	2,225	2,600	945	1,720	36,485	4,120
3 persons.....	34,930	1,095	7,480	1,245	1,520	575	1,045	19,185	2,780
4 persons.....	37,930	1,410	9,105	1,440	1,960	745	1,365	18,265	3,640
5 or more persons.....	18,100	710	3,960	590	1,195	430	610	8,935	1,665
by family structure and presence of children.....									
Number of husband-wife families.....	135,330	4,655	29,855	4,970	6,795	2,540	4,395	70,750	11,360
With no children at home.....	52,120	1,555	10,775	1,915	2,340	850	1,535	29,490	3,670
With children at home.....	83,210	3,105	19,085	3,060	4,460	1,695	2,860	41,270	7,695
1 child at home.....	29,270	1,005	6,355	1,075	1,375	540	925	15,505	2,495
2 children at home.....	36,315	1,390	8,825	1,390	1,910	730	1,375	17,180	3,560
3 or more children at home.....	17,620	705	3,905	585	1,170	425	610	8,585	1,635
Number of lone-parent families.....	17,860	280	3,100	540	485	160	340	12,115	840
Male parent.....	2,955	80	560	85	95	35	65	1,630	185
1 child at home.....	1,750	45	370	55	50	35	30	1,120	100
2 children at home.....	890	35	180	25	40	10	25	515	65
3 or more children at home.....	310	5	55	5	5	-	10	190	30
female parent.....	14,905	195	2,540	455	385	110	275	10,285	660
1 child at home.....	8,355	115	1,315	260	215	65	150	5,875	355
2 children at home.....	4,770	60	940	140	110	30	90	3,165	230
3 or more children at home.....	1,785	15	285	50	60	15	35	1,245	80

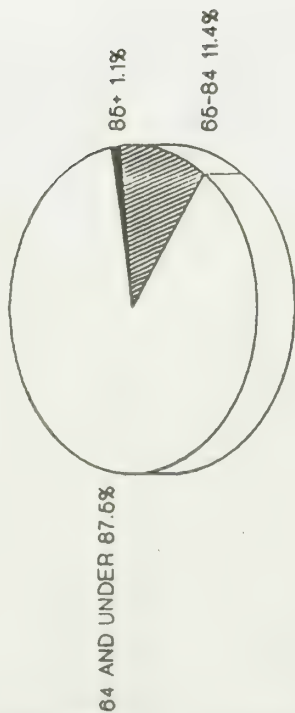
Source: Statistics Canada, Census Tract Profiles: Hamilton, Supply and Services Canada, February 1988 [Table 2]

Exhibit 2.10
 Age - Sex Pyramid for Hamilton
 CENSUS METROPOLITAN AREA
 1986 Census of Canada



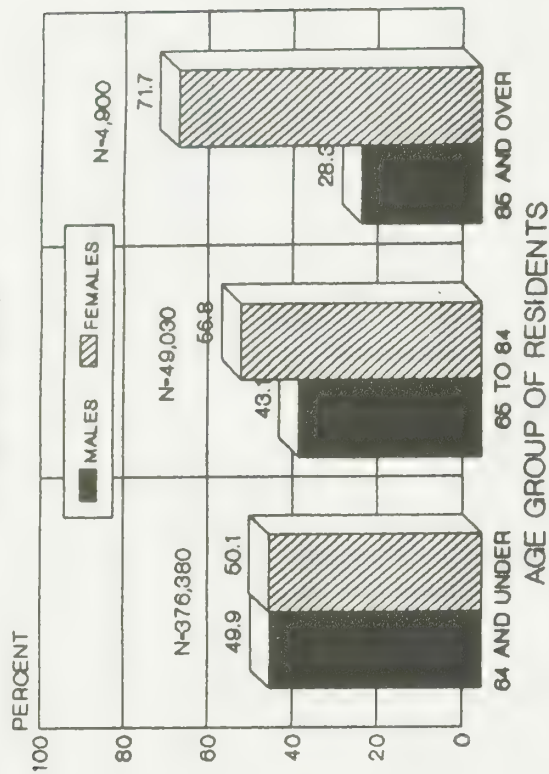
Source: 1986 Census of Canada. Summary Tabulations - Census
 Metropolitan Areas - Hamilton, Ontario. Table DM86A01
 Statistics Canada July 1987



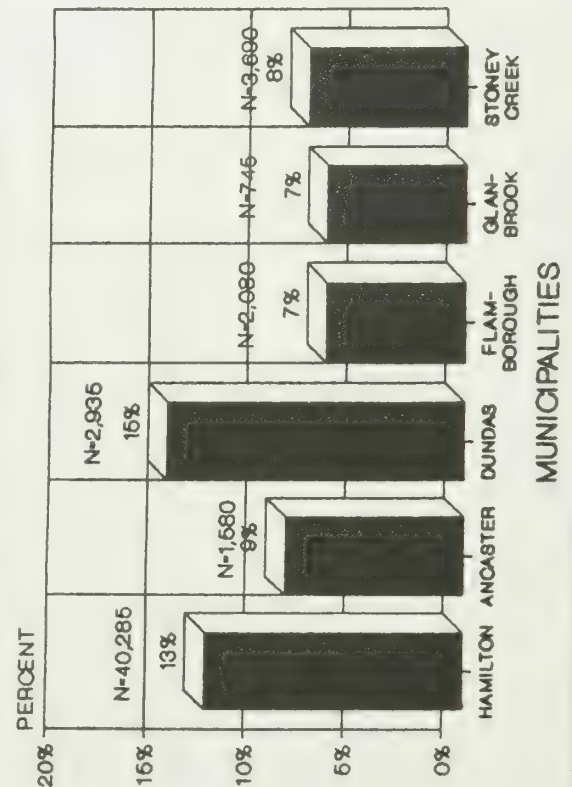
CURRENT POPULATION IN HAMILTON-WENTWORTH
BY AGE GROUP

N = 430,300

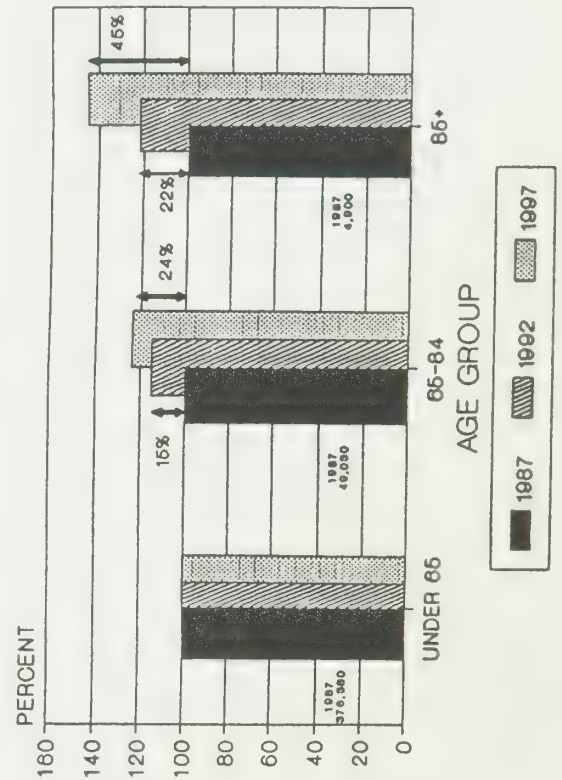
SOURCE: ONTARIO MINISTRY OF TREASURY AND ECONOMICS 1987

CURRENT POPULATION IN HAMILTON-WENTWORTH
BY AGE AND GENDER

SOURCE: ONTARIO MINISTRY OF TREASURY AND ECONOMICS 1987

POPULATION OF SENIORS 65+
FOR MUNICIPALITIES OF HAMILTON-WENTWORTH

SOURCE: STATISTICS CANADA, 1987

RELATIVE GROWTH OF THREE AGE GROUPS IN HAMILTON-WENTWORTH,
1987-1997

Reprinted in: German, C. and Davis, C. 1988. Services for Seniors Study. Mapping the Way to the Future for the Elderly. Final Report (draft). Hamilton: District Health Council and Regional Municipality.

POPULATION 65 YEARS AND OVER

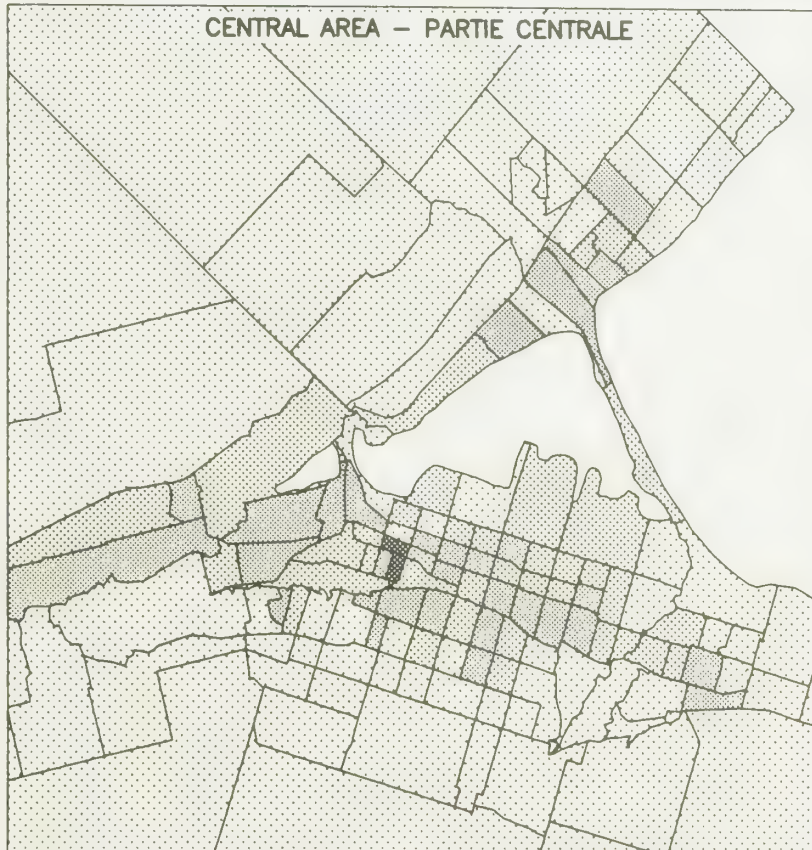
Persons 65 years of age and over are expressed as a percentage of the total population.

POPULATION DE 65 ANS ET PLUS

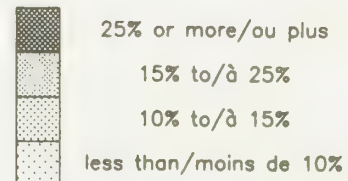
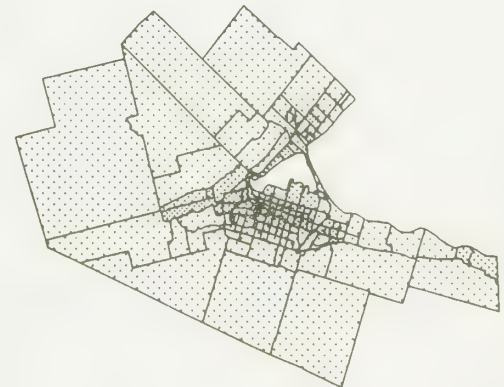
Le nombre de personnes de 65 ans et plus est exprimé en pourcentage de la population totale.

HAMILTON

CENSUS TRACTS - SECTEURS DE RECENSEMENT

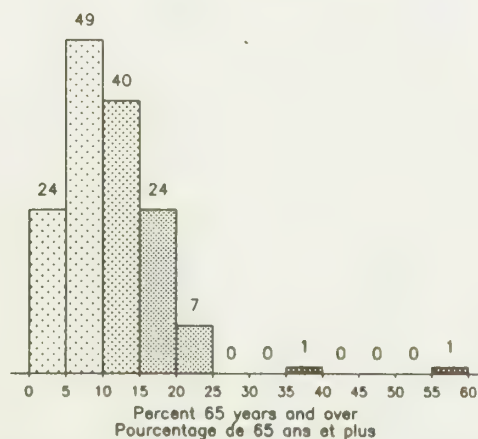


CMA - RMR



NUMBER OF TRACTS BY PERCENT 65 YEARS AND OVER NOMBRE DE SECTEURS SELON LE POURCENTAGE DE 65 ANS ET PLUS

146 tracts/secteurs



COMPARATIVE FIGURES CHIFFRES COMPARATIFS

HAMILTON	10.2%
(CMA - RMR)	
ONTARIO	10.1%
CANADA	9.7%

SOURCE: 1981 CENSUS OF CANADA
PRODUCED BY STATISTICS CANADA.

SOURCE: RECENSEMENT DU CANADA DE 1981
ÉTABLIE PAR STATISTIQUE CANADA.

From: Metropolitan Atlas Series - Hamilton. Ministry of Supply and
Services: Catalogue 99-928. [July 1984]

Exhibit 2.14

**REGION OF HAMILTON-WENTWORTH
ASSESSED POPULATION BY AREA MUNICIPALITY**

MUNICIPALITY	1973	1974	1975	1976	1977	1978 ^a	1979	1980	1982	1985	1988
Hamilton	305,382	306,671	311,886	312,162	311,907	307,964	306,538	306,640	308,102	307,690	307,160
Ancaster	14,632	14,347	14,334	14,180	14,118	14,073	14,107	14,294	14,733	16,542	19,728
Dundas	18,640	19,078	19,315	19,212	19,328	19,129	19,266	19,501	19,699	20,081	20,640
Stoney Creek	28,360	29,256	30,011	30,366	32,099	32,628	33,896	35,639	37,481	41,964	45,329
Flamborough	21,870	22,557	22,863	23,364	23,867	23,747	24,017	24,234	24,575	25,541	27,116
Glanbrook	9,980	10,023	10,057	10,047	10,039	9,945	9,934	9,737	9,585	9,446	9,493
Hamilton-Wentworth Region	398,864	401,932	408,466	409,331	411,358	407,486	407,758	410,045	414,175	421,264	429,466
Avg. Annual Change		3,068	6,534	865	2,027	-3,872	272	2,287	2,065	2,363	2,734
Avg. Annual % Change ^b		0.77%	1.63%	0.21%	0.50%	-0.94%	0.07%	0.56%	0.50%	0.57%	0.65%

SOURCE: MINISTRY OF REVENUE, ASSESSMENT SERVICES DIVISION AND
HAMILTON-WENTWORTH PLANNING AND DEVELOPMENT DEPARTMENT
May 1988

- Notes: a Change in enumeration methodology may account for some of the 'observed' population decline
 Note also that enumeration periods are not consistently spaced in time (not always 12 month gap)
 b Based on previous 12 months

Exhibit 2.15

POPULATION AND POPULATION SHARES
HAMILTON-VENTWORTH AND AREA MUNICIPALITIES, 1971-1986

POPULATION MUNICIPAL SHARE X	HAMILTON	ANCASTER	FLAMBOROUGH	DUNDAS	STONEY CREEK	GLANBROOK	HAMILTON-VENTWORTH
1971	309173 77.1	15087 3.8	20930 5.2	18740 4.7	27373 6.8	9936 2.5	401239 100.0
1976	312003 76.2	14255 3.5	23580 5.8	19179 4.7	30294 7.4	10179 2.5	409490 100.0
1981	306434 74.5	14428 3.5	24470 5.9	19586 4.8	36762 8.9	9765 2.4	411445 100.0
1986	306728 72.4	17264 4.1	26142 6.2	20118 4.8	43554 10.3	9592 2.3	423398 100.0

NOTE: Population figures are based on current boundaries

NOTE: Municipal Shares may not add to 100 due to rounding

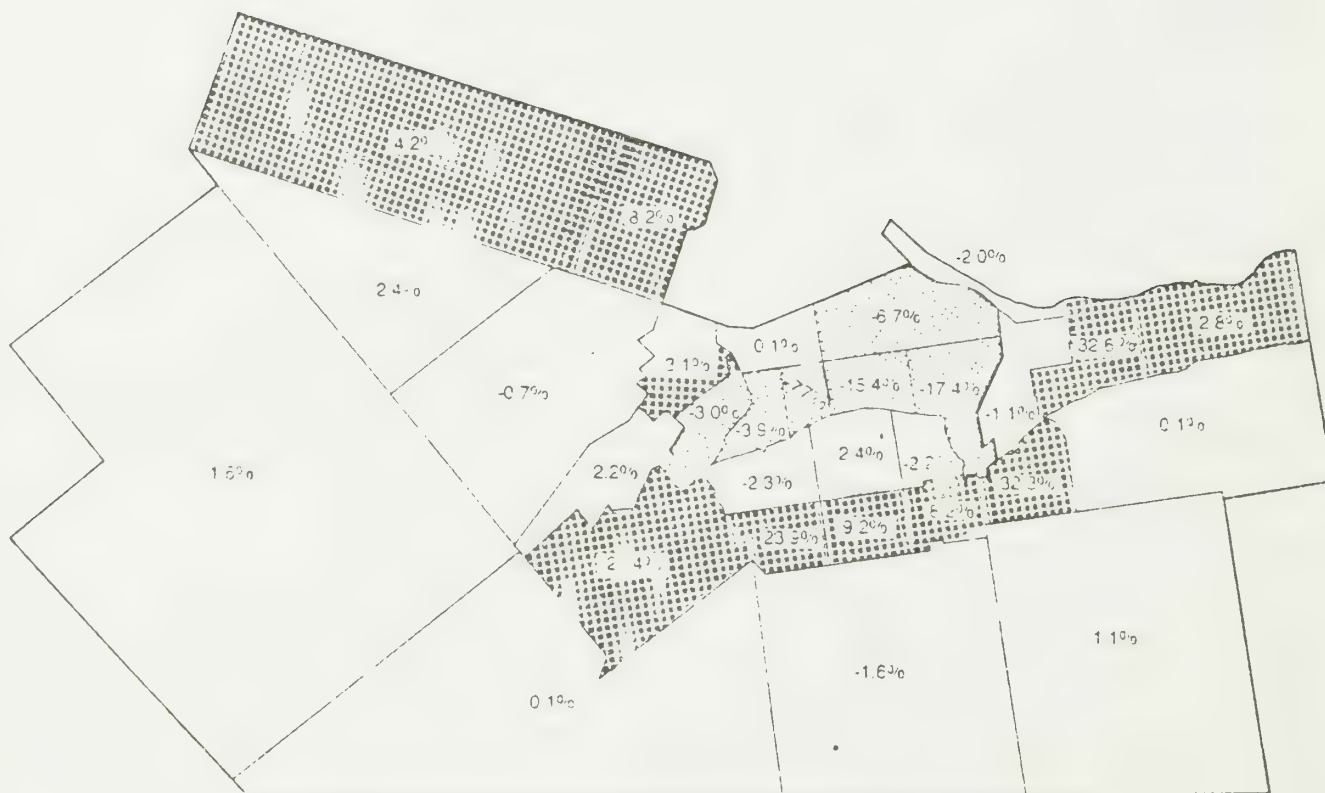
SOURCE: Statistics Canada, Census of Canada

Exhibit 2.16

AVERAGE ANNUAL GROWTH RATES HAMILTON-VENTWORTH AND AREA MUNICIPALITIES, 1971-1986			
MUNICIPALITY	1971-76	1976-81	1981-86
Ancaster	-1.13%	0.24%	3.58%
Dundas	0.46%	0.42%	0.54%
Flamborough	2.38%	0.74%	1.32%
Glanbrook	0.48%	-0.83%	-0.36%
Hamilton	0.18%	-0.36%	0.02%
Stoney Creek	2.03%	3.86%	3.38%
Hamilton-Wentworth	0.41%	0.10%	0.57%

NOTE: Growth rates are based on current boundaries
SOURCE: Statistics Canada, Census of Canada

SHARE OF REGIONAL POPULATION GROWTH FROM 1982 TO 1985



SHARE OF GROWTH FROM 1982 TO 1985

STABLE SHARE

☐ $> -2.5\%$ $< 2.5\%$

DECREASING SHARE

$\leq -2.5\%$

INCREASING SHARE

 $\geq 2.5\%$

Source: Ministry of Revenue, Assessment Services Division and The Hamilton-Wentworth Planning and Development Department.

Reprinted in: Hamilton-Wentworth Planning & Development Department Strategic Planning Division,
Greater Hamilton Population Trends. Demographics Report 87-1.

28

Source: Ethnocultural Data Base, Ontario Ministry of Citizenship [5th Floor, 77 Bloor W., Toronto, M7A 2R9; 416-965-5280]

1986 CENSUS POPULATION (HAMILTON-WENTWORTH) BY SELECTED MOTHER TONGUE, GENDER AND CENSUS SUBDIVISION (MUNICIPALITY)

CENSUS SUBDIVISION: 14 ANCASTER				CENSUS SUBDIVISION: 26 DUNDAS				CENSUS SUBDIVISION: 30 PLAMBOROUGH			
CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU				CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU				CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU			
1986 CENSUS FILE: M86A01				1986 CENSUS FILE: M86A01				1986 CENSUS FILE: M86A01			
POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%				POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%				POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%			
MOTHER TONGUE	TOTAL	MALE	FEMALE	MOTHER TONGUE	TOTAL	MALE	FEMALE	MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	17260	8695	8570	TOTAL POPULATION.....	20115	9570	10550	TOTAL POPULATION.....	26140	13295	12845
SINGLE RESPONSES.....	16950	8530	8420	SINGLE RESPONSES.....	19780	9400	10380	SINGLE RESPONSES.....	25655	13045	12605
ENGLISH.....	14870	7490	7385	ENGLISH.....	17900	8500	9400	ENGLISH.....	22825	11585	11235
FRENCH.....	95	40	55	FRENCH.....	130	50	85	FRENCH.....	180	80	100
NON-OFFICIAL LANGUAGES...	1985	1005	980	NON-OFFICIAL LANGUAGES...	1755	850	900	NON-OFFICIAL LANGUAGES...	2645	1375	1270
ABORIGINAL LANGUAGES.....	0	0	0	ABORIGINAL LANGUAGES.....	0	0	0	ABORIGINAL LANGUAGES.....	0	5	0
ITALIAN.....	295	160	135	ITALIAN.....	205	115	95	ITALIAN.....	260	150	115
PORTUGUESE.....	10	10	5	PORTUGUESE.....	15	5	10	PORTUGUESE.....	120	65	55
SPANISH.....	15	10	10	SPANISH.....	20	5	10	SPANISH.....	10	0	5
GERMAN.....	390	200	195	GERMAN.....	480	235	245	GERMAN.....	570	290	285
YIDDISH.....	5	0	0	YIDDISH.....	25	10	10	YIDDISH.....	5	0	0
DUTCH.....	450	225	225	DUTCH.....	185	80	95	DUTCH.....	830	430	400
UKRAINIAN.....	155	75	80	UKRAINIAN.....	100	40	55	UKRAINIAN.....	130	70	65
RUSSIAN.....	5	5	0	RUSSIAN.....	45	15	30	RUSSIAN.....	10	5	5
POLISH.....	120	60	60	POLISH.....	90	40	50	POLISH.....	135	65	70
FINNISH.....	5	5	0	FINNISH.....	10	0	0	FINNISH.....	5	0	5
HUNGARIAN.....	80	45	35	HUNGARIAN.....	105	55	50	HUNGARIAN.....	80	35	45
GREEK.....	20	10	15	GREEK.....	35	20	15	GREEK.....	30	20	10
ARABIC.....	0	5	0	ARABIC.....	5	5	0	ARABIC.....	0	0	0
PUNJABI.....	10	5	5	PUNJABI.....	25	10	15	PUNJABI.....	25	10	15
CHINESE.....	80	35	45	CHINESE.....	55	30	30	CHINESE.....	20	10	10
VIETNAMESE.....	5	5	0	VIETNAMESE.....	0	0	0	VIETNAMESE.....	10	10	5
TAGALOG, PHILIPINO.....	10	5	5	TAGALOG, PHILIPINO.....	15	0	10	TAGALOG, PHILIPINO.....	10	5	5
OTHER LANGUAGES.....	305	155	150	OTHER LANGUAGES.....	350	175	175	OTHER LANGUAGES.....	395	210	180
MULTIPLE RESPONSES.....	315	165	150	MULTIPLE RESPONSES.....	335	170	165	MULTIPLE RESPONSES.....	490	250	235
2308C87				2308C87				2308C87			

Source: Ethnocultural Data Base, Ontario Ministry of Citizenship
[5th Floor, 77 Bloor St.W., Toronto, M7A 2R9; 416-965-5280]

CENSUS SUBDIVISION: 9 GLAMSBROOK

CENSUS DIVISION: HAMILTON-WENTWORTH REGIONAL MU

1986 CENSUS FILE: W786A01

POPULATION BY SELECTED MOTHER TONGUE AND SEX - 100%

MOTHER TONGUE	TOTAL	MALE	FEMALE
TOTAL POPULATION.....	9590	4930	4655
SINGLE RESPONSES.....	9350	4805	4545
ENGLISH.....	8280	4250	4030
FRENCH.....	90	45	45
NON-OFFICIAL LANGUAGES...	975	510	470
ABORIGINAL LANGUAGES.....	5	5	0
ITALIAN.....	185	110	75
PORTUGUESE.....	25	10	10
SPANISH.....	5	0	0
GERMAN.....	190	95	100
YIDDISH.....	0	0	5
DUTCH.....	220	115	110
UKRAINIAN.....	45	30	15
RUSSIAN.....	5	0	0
POLISH.....	60	30	35
FINNISH.....	0	0	0
HUNGARIAN.....	50	20	25
GREEK.....	10	5	10
ARABIC.....	5	5	0
PUNJABI.....	0	0	0
CHINESE.....	0	5	0
VIETNAMESE.....	0	0	0
TAGALOG, FILIPINO.....	0	0	0
OTHER LANGUAGES.....	170	80	85
MULTIPLE RESPONSES.....	245	135	115

Source: Ethnocultural Database,
Ontario Ministry of Citizenship

ONTARIO SCHOOL POPULATIONS AS OF SEPTEMBER 1986

HEALTH UNIT: HAMILTON-WENTWORTH REG. HEALTH UNIT

TYPE OF SCHOOL	TOTAL POPULATION	NO. OF SCHOOLS	NO. OF TEACHERS
PUBLIC SCHOOLS			
ELEMENTARY	34924	100	1620
SECONDARY	20322	27	1293
TRAINABLE RETARDED	318	14	47
HOSP. ELEMENTARY			
HOSP. SECONDARY			
PROV. CARE AND TREATMENT CENTRES	98	11	13
SEPARATE SCHOOLS			
ELEMENTARY	16890	52	725
SECONDARY	6104	7	204
TRAINABLE RETARDED	115	1	8
HOSP. ELEMENTARY			
HOSP. SECONDARY			
PROV. CARE AND TREATMENT CENTRES	7	1	1
PRIVATE SCHOOLS			
	4270	26	199
TOTALS	83048	239	4110

EXTRACTED FROM STATISTICS PRODUCED
BY THE MINISTRY OF EDUCATION

DATA SUPPORT SERVICES
PUBLIC HEALTH BRANCH



Socio-Economic Indicators*

City of Hamilton

1979

Exhibit 2.20

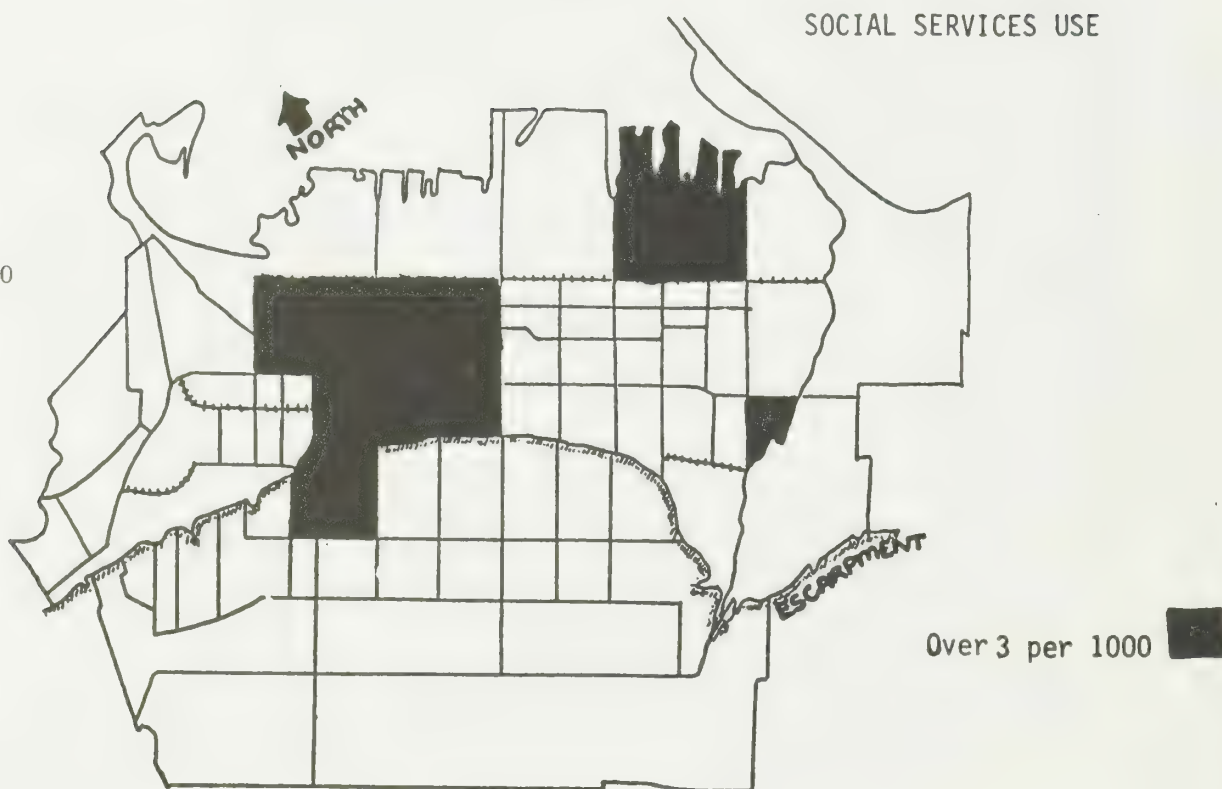
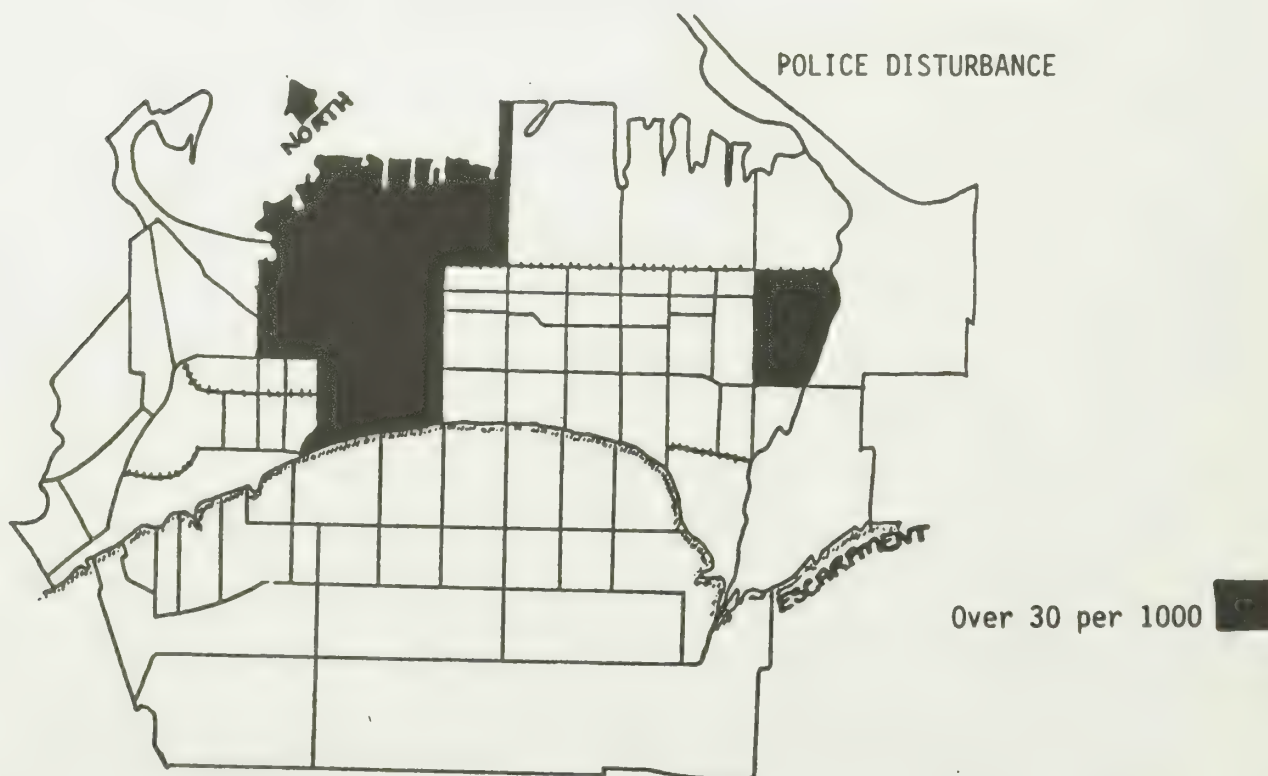


Exhibit 2.21



*Source: McAuley, R.G. and Lee, W.L. 1982. City of Hamilton, Census Tract Maps of Demographic and Service Utilization Data. Hamilton: Hamilton General Hospital, Family Practice Unit.

Exhibit 2.22

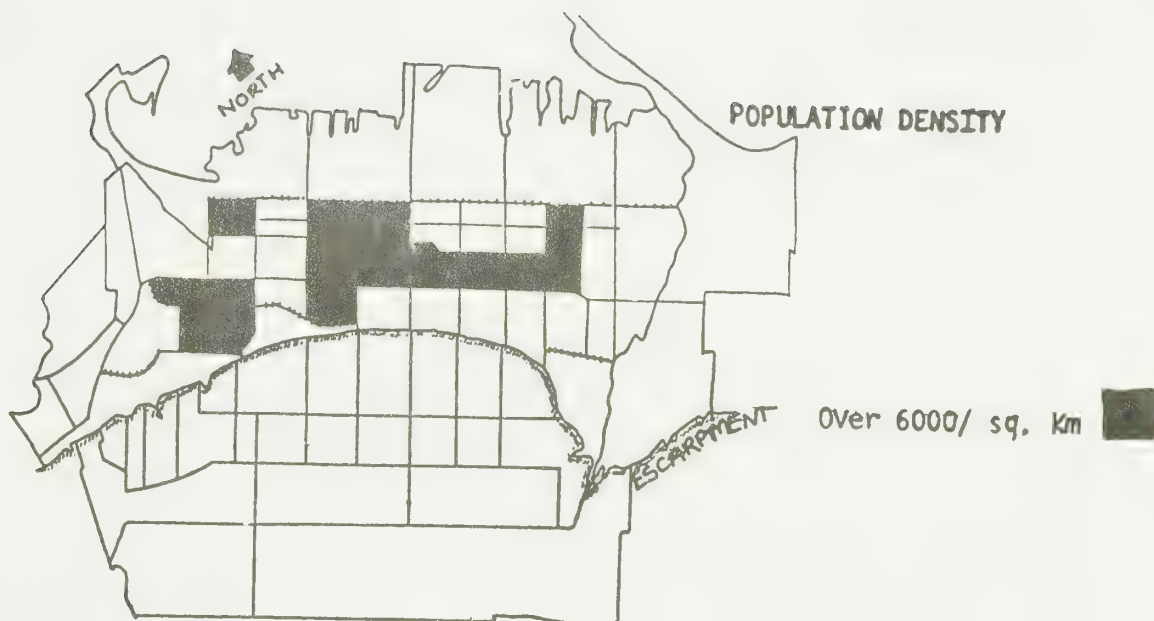


Exhibit 2.23

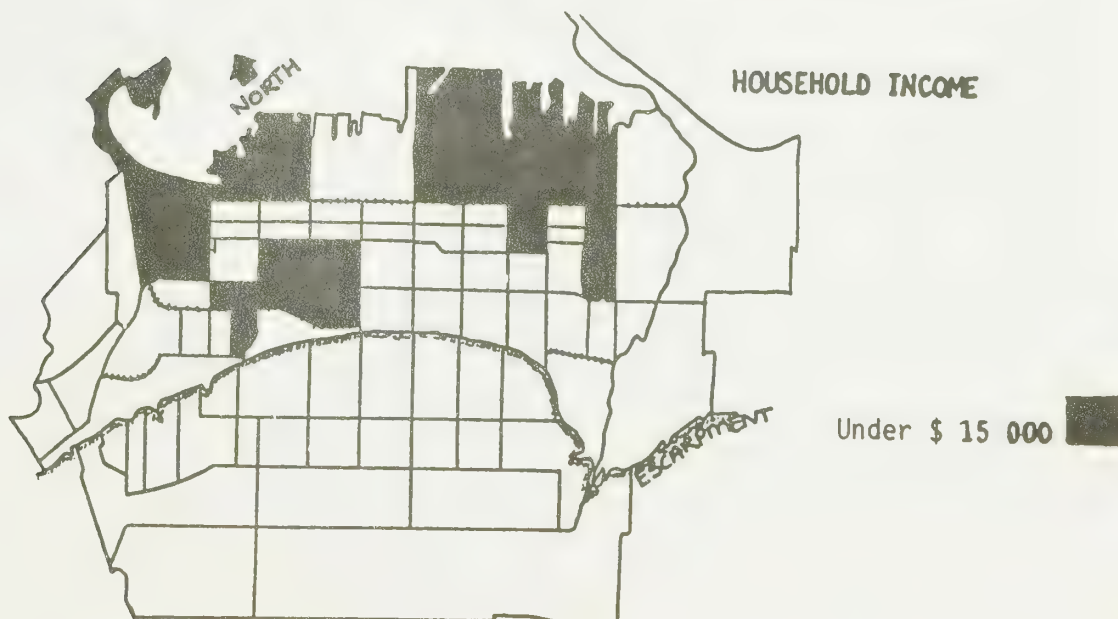
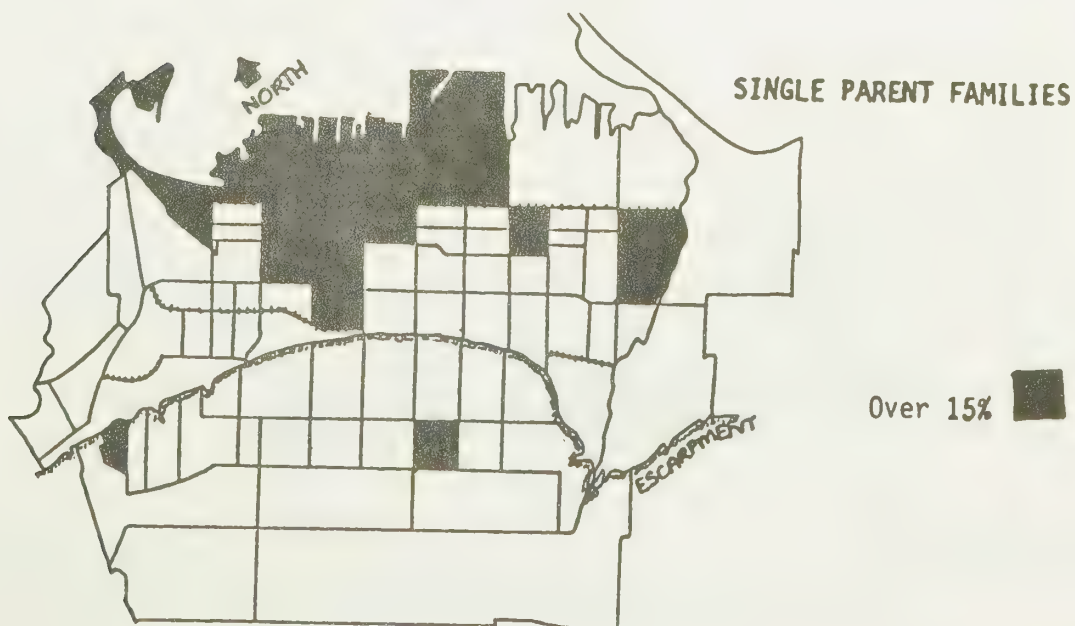


Exhibit 2.24



INCIDENCE OF LOW INCOME, 1980, ECONOMIC FAMILIES

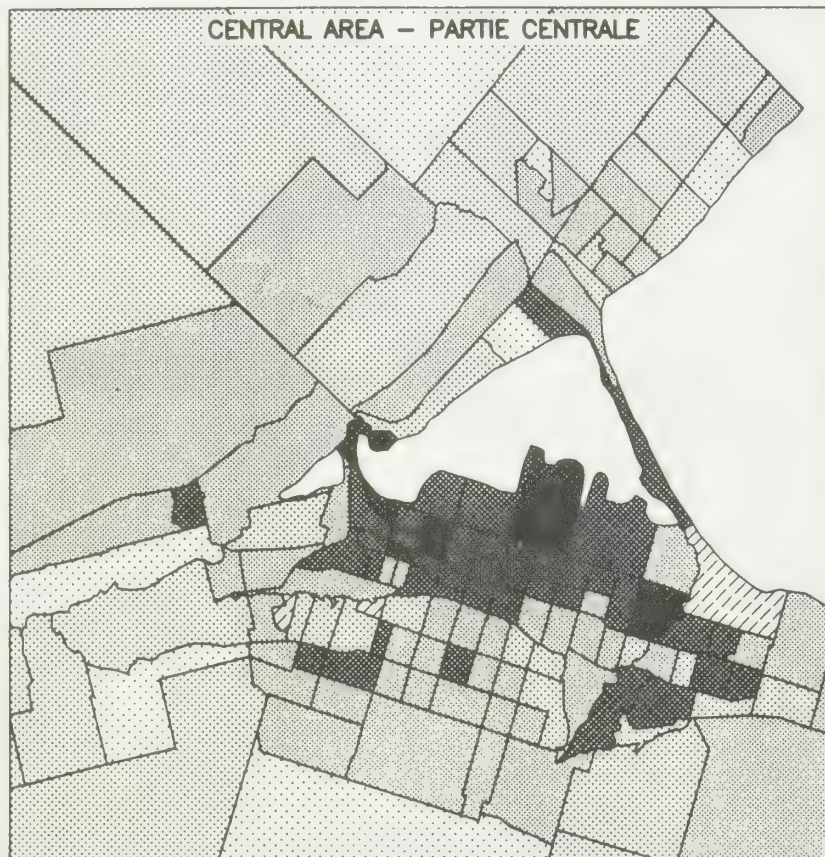
Prevalence of low income is the percentage of economic families in the CT that fall below the low income cut-offs. Data for CTs with a total population of less than 250 persons are excluded. See the introductory text for the universe covered and definitions.

TAUX DES FAIBLES REVENUS, 1980, FAMILLES ÉCONOMIQUES

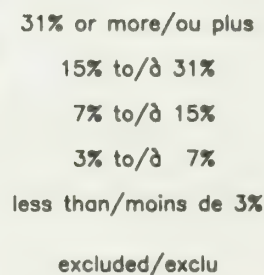
Le taux des faibles revenus correspond au pourcentage de familles économiques dont le revenu est inférieur au seuil de faible revenu. Les données relatives aux SR dont la population totale est inférieure à 250 habitants sont exclues. La description de l'univers et les définitions figurent dans l'introduction.

HAMILTON

CENSUS TRACTS - SECTEURS DE RECENSEMENT

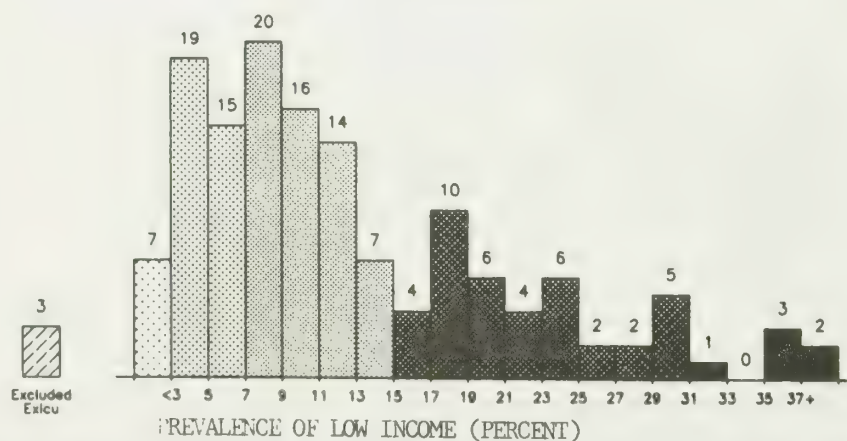


CMA - RMR



NUMBER OF TRACTS BY PREVALENCE OF LOW INCOME, 1980

146 tracts/secteurs



COMPARATIVE FIGURES CHIFFRES COMPARATIFS

HAMILTON (CMA - RMR)	12.3%
ONTARIO	11.4%
CANADA	13.0%

SOURCE: 1981 CENSUS OF CANADA
PRODUCED BY STATISTICS CANADA.

SOURCE: RECENSEMENT DU CANADA DE 1981
ÉTABLI PAR STATISTIQUE CANADA.

From: Metropolitan Atlas Series - Hamilton. Ministry of Supply and
Services: Catalogue 99-928. [July 1984]

SELECTED HEALTH CARE PERSONNEL, SOUTH AND CENTRAL ONTARIO, 1984

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	NUMBER OF REGISTERED PROFESSIONAL PERSONNEL				PERSONNEL TO POPULATION RATIO	
	PHYSICIANS (1)	DENTISTS (2)	NURSES		PHYSICIANS (5)	PUBLIC HEALTH NURSES (5)
			TOTAL (3)	PUB. HLTH (4)		
ONTARIO	19,616	4,901	70,411	2,222	456	4,026
SOUTHWEST	2,517	641	11,674	314	514	4,116
BRUCE	59	18	480	13		4,846
ELGIN-ST. THOMAS	87	22	639	21	1,068	3,349
GREY-OWEN SOUND	105	29	716	21	808	3,577
HURON	53	18	369	15	715	3,759
KENT-CHATHAM	119	47	809	26	1,064	4,108
LAMBTON	117	63	1,043	26	898	4,904
MIDDLESEX-LONDON	1,365	242	3,786	87	1,090	3,748
OXFORD	94	32	709	21	239	4,124
PERTH	90	27	538	17	741	3,923
WINDSOR-ESSEX	428	143	2,583	67	734	4,687
CENTRAL WEST	3,155	846	13,414	376	553	4,642
BRANT	145	36	768	27	731	3,926
HALDIMAND-NORFOLK	70	27	599	24	1,303	3,800
HALTON	489	139	2,419	72	549	3,726
HAMILTON-WENTWORTH	1,266	224	3,602	90	837	5,520
NIAGARA	501	184	2,644	76	745	4,908
WATERLOO	443	159	2,114	57	720	5,596
WELL.-DUFF.-GUELPH	241	77	1,268	30	699	5,617
CENTRAL EAST	9,522	2,442	27,429	942	398	4,021
DURHAM	376	137	2,499	65	818	4,734
HALIBURTON, K., P.R.	144	39	675	37	911	3,746
PEEL	636	252	3,871	86	870	6,431
PETERBOROUGH	216	47	961	24	487	4,379
SIMCOE	313	112	1,783	44	753	5,357
METRO TORONTO	7,336	1,719	15,260	636	294	3,393
EAST YORK	-	-	-	-	-	-
ETOBICOKE	-	-	-	-	-	-
NORTH YORK	-	-	-	-	-	-
SCARBOROUGH	-	-	-	-	-	-
TORONTO	-	-	-	-	-	-
YORK BOROUGH	-	-	-	-	-	-
YORK REGIONAL	501	136	2,380	50	593	5,944

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 7.1)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

Exhibit 2.27
BED CAPACITY FOR THE ELDERLY
HAMILTON-WENTWORTH, 1987

HOMES FOR THE AGED BED CAPACITY

	<u>Residential (Type 1)</u>	<u>Extended Care (Type 2)</u>	<u>Total Number of Licensed Beds</u>
<u>HAMILTON CITY CORE</u>			
Canadian National Institute for the Blind	59	-	59
<u>HAMILTON MOUNTAIN</u>			
Macassa Lodge	157	209	366
Idlewyld	101	-	101
<u>DUNDAS</u>			
St. Joseph's Villa	200	170	370
Wentworth Lodge	<u>91</u>	<u>119</u>	<u>210</u>
TOTAL CAPACITY	608 ===	498 ===	1106 =====
(Good Shepherd	26)		

NURSING HOME BED CAPACITY

	<u>Extended Care</u>	<u>Homes for Special Care</u>	<u>Total</u>
<u>HAMILTON</u>			
1. Beacon Hill Lodge	248	-	248
2. Brownstone	105	-	105
3. Clarion	93	7	100
4. Grace Villa	160	24	184
5. Hamilton Convalescent	53	7	60
6. Parkview Nursing Centre	121	3	124
7. Proctor Manor	20	3	23
8. St. Elizabeth's	179	5	184
9. St. Olga's	50	40	90
10. Victoria	<u>41</u>	<u>19</u>	<u>60</u>
Sub-Total	<u>1070</u>	<u>108</u>	<u>1178</u>
<u>STONEY CREEK</u>			
11. Brodie's	41	-	41
12. Pine Villa	33	5	38
13. Heritage Green	<u>34</u>	<u>-</u>	<u>34</u>
Sub-Total	<u>108</u>	<u>5</u>	<u>113</u>
<u>DUNDAS</u>			
14. Blackadar's	<u>80</u>	<u>-</u>	<u>80</u>
TOTAL CAPACITY	<u>1258</u>	<u>113</u>	<u>1371</u>

Source: Long Term Care Task Force, Hamilton-Wentworth District Health Council,
Inventory of Long Term Care Facilities/Services for the Hamilton-Wentworth
Region, July 1987

Exhibit 2.28

HAMILTON-WENTWORTH DISTRICT HOSPITAL BED ALLOCATIONS - 1987

INSTITUTION	ACUTE	PSYCHIATRIC	CHRONIC	GENERAL REHAB.	SPECIAL REHAB.	ALCOHOL TREATMENT	GERIATRIC ASSESSMENT	TOTAL
HAMILTON GENERAL	385	30	--	--	--	--	--	415
HENDERSON GENERAL	475	26	38	75	--	--	--	614
CHEDOKE DIVISION	75	--	120	20 *	91	20	20	346
MCMASTER DIVISION	328	29	35	--	--	--	--	392
ST. JOSEPH'S	523	34	30	20	--	--	--	607
HAMILTON PSYCHIATRIC	--	407	--	--	--	--	--	407
ST. PETER'S HOSPITAL	--	--	284	--	--	--	--	284
TOTAL	1786	526	507	115	91	20	20	3065

* Used as chronic beds.

Source: Long Term Care Task Force Hamilton-Wentworth District Health Council
Inventory of Long Term Care Facilities/Services for the Hamilton Wentworth Region,
July 1987

Exhibit 2.29

INSTITUTIONAL ACCOMMODATION, 1984

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	(1)				(2)		
	HOSPITAL BEDS				NURSING HOMES (LICENSED BEDS)	HOMES FOR THE AGED	
	ACTIVE EXCLUDING PSYCHIATRIC	REHABIL- ITATION	CHRONIC	PSYCHIATRIC UNITS HOSPITALS		EXTENDED CARE BEDS	RESIDENTIAL BEDS
ONTARIO	33,676	1,669	10,790	2,460	4,917	12,643	15,104
SOUTHWEST	5,263	200	2,227	363	1,066	1,836	2,610
BRUCE	197		75			137	117
ELGIN-ST. THOM.	204		105		524	136	275
GREY-O. SOUD	368	23	146	57		39	152
HURON	198		85	20		211	163
KENT-CHATHAM	375	19	121	30		117	291
LAMBTON	392	20	108	24		220	167
MIDDLESEX-LON.	1,749	102	877	99	544	544	568
OXFORD	286		112	19		58	200
PERTH	277		141	18		102	209
WINDSOR-ESSEX	1,217	36	457	116		274	468
CENTRAL WEST	6,060	296	1,780	395	600	2,536	3,132
BRANT	392		145	39		244	181
HALD.-NORFOLK	240		96			270	179
HALTON	756	35	76	59		231	312
HAM-WENTMORTH	1,823	206	527	121	600	441	687
NIAGARA	1,212	22	418	124		751	958
WATERLOO	1,053	35	347	52		316	537
WELL-DUFF-G.	584		171			283	278
CENTRAL EAST	13,712	1,065	4,010	1,078	1,646	4,531	5,756
DURHAM	787		192	24		489	329
HAL.-K., P.R.	320		135		504	187	208
PEEL	853		132	89		239	318
PETERBOROUGH	481		86	52		125	322
SIMCOE	742		125	34	542	332	384
METRO TORONTO	10,022	1,065	3,217	826	600	2,840	3,849
EAST YORK	560		60	40		236	154
ETOBICOKE	662		120	60	-	340	138
NORTH YORK	1,716	454	626	183	-	833	865
SCARBORO	1,051	84	427	69	-	372	712
TORONTO	5,491	449	1,665	394	-	1,059	1,609
YORK BOROUGH	541	78	379	80	-	380	371
YORK REGIONAL	507		123	53		319	346

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 7.2)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

HEALTH CARE COSTS, 1985

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	ESTIMATED TOTAL EXPENDITURE (1,000)	HOSPITALS AND INSTITUTIONS	PHYSICIANS SERVICES (2)	ONTARIO DRUG BENEFIT PLAN	PUBLIC HEALTH		HOMES FOR SPECIAL CARE	HOME CARE		EXTENDED CARE	ALL OTHER HEALTH COSTS
					EXPENDI- TURE	PER CAPITA		EXPENDI- TURE	PER CAPITA		
ONTARIO	8,126,396.0	4,071,000.7	2,398,999.5	209,986.2	68,438.5	9.76	86,226.6	104,460.5	11.53	251,076.9	1,635,307.1
SOUTHWEST	1,240,240.7	643,821.2	322,722.8	41,903.5	14,008.5	10.78	12,459.9	13,819.3	10.63	36,281.0	155,224.5
BRUCE	30,779.3	15,226.2	8,254.2	2,042.4	602.5	9.66	607.3	804.1	12.90	1,768.4	1,474.2
ELGIN-ST. THOM.	42,978.7	23,202.2	11,394.1	2,439.7	871.5	12.35	677.9	851.6	12.07	1,973.8	1,727.9
GREY-O. SOUND	88,052.8	41,800.9	17,285.4	2,475.4	980.6	13.01	724.2	959.4	12.73	2,108.6	2,175.8
MURON	35,300.3	20,199.9	7,617.0	1,827.8	755.1	13.34	543.5	712.7	12.59	1,582.6	2,141.7
KENT-CHATHAM	74,655.7	39,003.4	20,961.2	3,462.8	1,168.5	10.90	1,029.6	978.3	9.13	2,998.2	5,053.7
LAMBTON	89,287.4	46,580.8	27,074.8	4,133.6	1,291.5	10.10	1,229.1	1,554.3	12.15	3,578.9	3,844.4
MIDDLESEX-LON.	467,902.1	268,768.1	118,959.2	10,572.2	3,718.5	11.26	3,143.6	2,924.9	8.85	9,153.6	50,662.0
OXFORD	54,396.8	29,468.8	14,833.1	2,807.6	950.8	11.02	834.8	810.3	9.39	2,430.9	2,540.5
PERTH	48,181.5	26,244.3	14,489.9	2,162.1	890.5	13.28	642.9	462.2	6.89	1,872.0	1,397.6
WINDSOR-ESSEX	257,590.5	133,306.6	81,853.9	10,179.9	2,779.0	8.80	3,027.0	3,761.5	11.90	8,814.0	13,868.6
CENTRAL WEST	1,363,649.4	695,100.6	410,855.7	56,589.8	16,017.3	9.09	16,826.0	20,984.7	11.91	48,996.7	98,277.8
BRANT	77,900.1	41,725.1	22,004.0	3,436.8	1,165.6	10.90	1,021.9	1,379.3	12.90	2,975.7	4,191.7
HALD.-NORFOLK	45,078.5	20,497.6	12,064.7	2,956.4	1,199.2	13.12	879.1	1,148.9	12.57	2,559.7	3,772.9
HALTON	158,160.5	67,461.1	59,417.5	8,698.3	2,589.2	9.51	2,586.4	1,959.1	7.20	7,531.2	7,917.7
HAM-MENTHORTH	467,869.5	267,950.5	122,322.3	13,600.5	4,287.1	10.14	4,044.1	9,045.1	21.40	11,775.6	34,844.3
NIAGARA	260,975.8	127,597.1	92,141.6	12,093.0	2,851.8	7.63	3,595.8	2,798.0	7.48	10,470.4	9,428.1
WATERLOO	207,472.3	105,326.3	68,333.3	10,342.0	2,461.3	7.58	3,075.2	1,880.0	5.79	8,954.3	7,099.9
WELL-DUFF-6	121,168.7	64,542.9	34,572.3	5,462.8	1,463.1	8.57	1,624.3	2,774.3	16.25	4,729.8	5,999.2
CENTRAL EAST	3,629,768.6	1,754,649.8	1,168,610.6	122,812.1	31,123.5	8.05	36,517.9	35,346.4	9.14	106,333.6	374,374.7
DURHAM	181,457.2	82,665.9	64,602.8	9,975.6	2,490.8	7.78	2,966.2	2,480.9	7.75	8,637.1	7,637.9
HAL, K., P.R.	65,421.8	30,260.0	19,099.4	4,253.9	1,040.3	7.83	1,264.9	1,282.5	9.66	3,683.0	4,537.8
PEEL	275,516.7	97,507.9	95,557.2	17,931.5	3,502.2	6.07	5,331.9	3,938.0	6.82	15,525.5	36,222.5
PETERBOROUGH	97,116.2	50,271.0	32,429.3	3,407.0	1,928.4	18.27	1,013.1	2,222.7	21.06	2,949.9	2,894.8
SIMCOE	141,893.9	66,950.1	44,694.5	7,641.4	2,304.8	9.65	2,272.1	2,787.6	11.67	6,616.1	8,627.3
METRO TORONTO	2,625,551.4	1,365,852.0	860,857.8	69,967.5	17,674.0	8.16	20,804.7	20,680.1	9.55	60,579.6	120,135.7
YORK REGIONAL	142,570.6	61,142.9	51,369.6	9,635.2	2,183.0	6.73	2,865.0	1,954.6	6.02	8,342.4	5,077.9

NOTES: 1. THE ITEMIZED HEALTH CARE EXPENDITURES WERE OBTAINED FROM THE REPORT ENTITLED "HEALTH EXPENDITURES BY COUNTY AND HEALTH DISTRICT, FISCAL YEAR 1984/85" PREPARED BY THE INFORMATION RESOURCES AND SERVICES BRANCH OF THE MINISTRY OF HEALTH.

2. INCLUDES PAYMENTS TO PHYSICIANS AND PRACTITIONERS WHOSE MAILING ADDRESSES WERE NOT WITHIN THE RECOGNIZED REGIONS, COUNTIES AND DISTRICTS OF ONTARIO.

3. THE PER CAPITA RATES WERE CALCULATED BASED ON THE 1985 CENSUS POPULATION PREPARED BY THE MINISTRY OF TREASURY AND ECONOMICS.

4. TOTAL EXPENDITURES INCLUDE ONTARIO PSYCHIATRIC HOSPITAL COSTS OF \$257,803.6 WHICH WERE ALLOCATED BY REGION.

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 8.1)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

General Health Status

- mortality
- morbidity

Chapter 3

APPROPRIATE USE OF MORBIDITY AND MORTALITY STATISTICS

R. Alder, L. Eastridge

June 1988

Morbidity and mortality statistics are frequently used to compare a given health unit's (or municipality's) disease experience with 1) that of the total province and 2) that of surrounding health units. When, in either application, interest is in factors other than age that may be related to disease occurrence (e.g. environmental pollution), an age-standardized statistic should be employed and the crude rate (TOTAL RATE) avoided. Two different age-standardized statistics are provided in Exhibits 3.8 - 3.13: standardized mortality (or morbidity) ratio (SMR) and standardized mortality (or morbidity) rate (SRATE). The appropriate use of these age-standardized statistics under common applications is discussed below.

1) Comparison of municipality with the province

When comparing Hamilton-Wentworth with the province, either the SMR or the SRATE can be validly used, though the former is to be preferred. The SMR itself is a comparison of a health unit with the province. This statistic is the ratio of the observed total rate in the health unit over the expected total rate. In calculating the expected total rate, the provincial age-specific rates are applied to the municipality's age distribution. Hence, both the observed rate and the expected rate of the SMR are derived from the same age distribution, that of the municipality. The SRATE is based on a different method of age-standardization and, though it is the standardized rate of only the given municipality, it too can be put into a ratio over the provincial observed rate. This ratio is called the comparative mortality figure (CMF) (Fleiss, 1981). In calculating the SRATE, the health unit's age-specific rates are applied to the provincial age distribution. Hence, both the SRATE and the observed provincial rate are derived from the same age distribution, that of the province. Both approaches, therefore, completely adjust for differences in age distribution. The SMR, however, is preferable to the CMF for the following two reasons. First, it weights the age-specific mortality (or morbidity) rates by the municipality's age distribution. The CMF, on the other hand, weights by the provincial age distribution. Thus, in the SMR the mortality rates of the health unit are weighted according to the population they actually affect (Kleinman, 1977). Second, the SMR is usually subject to less random error than the CMF. This greater statistical stability derives from the lack of dependence of the SMR on age-specific rates of the health unit which, due to smaller numbers, will be less stable than the provincial rates (Rothman, 1986).

The SMR is typically expressed as the observed number of deaths over the expected number of deaths instead of the observed rate over the expected rate. This is because the denominators of both the observed and expected rates are identical, the total population of Hamilton-Wentworth. Thus, an SMR of 1.00 indicates that the number of deaths observed in the municipality was equal to the number that was expected to occur. In other words, our age-specific mortality rates for the given disease were the same as those of the province. An SMR of 1.40 indicates there were 40% more deaths observed than were expected in the municipality based on baseline provincial values.

The SMR provided is actually a point estimate of a range of SMR values that could have occurred with the given data due to random variability in disease occurrence. One can be 95% confident that this range falls between the lower and upper limits provided (extreme right column in Exhibits 3.8 - 3.13). This 95% confidence interval can be used to determine if the SMR is statistically significant (at $\alpha = 0.05$). If the value of 1.00 does not fall on or between the given lower and upper limits then the SMR is statistically significant. The confidence interval also provides two additional pieces of information. First, it indicates how stable the calculated SMR is: the wider the interval the less stable is the given SMR. Second, the confidence interval indicates the highest and lowest values of the SMR that are consistent with the given data.

Finally, note that within a given municipality the SMRs for various diseases can be compared validly.

2) Comparison with other municipalities/health units

When comparing the mortality (or morbidity) of one health unit with that of another, the SRATE is to be preferred over the SMR. In calculating the expected number (denominator) of the SMR the provincial age-specific rates are applied to the age distribution of each municipality. Hence, the SMRs of various health units are based not on one age distribution, but on a number of possibly different age distributions. In contrast, SRATE is calculated by applying the age-specific rates of each health unit to one age distribution, that of the province. For this reason, two health units with the same set of age-specific rates but different age distributions will have equal SRATES, but may have unequal SMRs (Kleinman, 1977). A common way of comparing the SRATES in two health units is to obtain a ratio, called the standardized rate ratio (SRR) (Rothman, 1986). If, for example, the SRR of area A over area B was 2.00, one would say that the rate of the given disease in A is twice that in B.

Summary

When comparing a given municipality (or health unit) with the province, the SMR and its 95% confidence interval is preferable to the SRATE. However, when comparing one health unit with another the SRATE is preferable.

References

Fleiss, J.L. 1981. Statistical methods for rates and proportions. New York: John Wiley & Sons.

Kleinman, J.C. 1977. Age-adjusted mortality indexes for small areas: application to health planning. American Journal of Public Health. 67:834-40.

Rothman, K.J. 1986. Modern epidemiology. Boston: Little, Brown & Co.

Source: adapted from R. Alder and L. Eastridge, 1988, Morbidity and mortality statistics, Hamilton-Wentworth, 1981 & 1986, Toronto: Ontario Ministry of Health.

NOTE: Population figures serving as denominator in rate and ratio calculations for Exhibits 3.8 - 3.13 are found below. (Note that they are slightly at variance with figures provided in Chapter 2.

Region	Gender	A g e i n y e a r s								total
		< 1 yr	1-14	15-24	25-44	45-64	65-74	75-84	85+	
Hamilton-Wentworth	Male	2884	39276	34775	63680	44530	14050	5915	1220	206330
	Female	2785	37630	34505	65420	46610	16845	9945	3345	217085
	Total	5669	76906	69280	129100	91140	30895	15860	4565	423415
Ontario	Male	64659	893581	761310	1433255	904155	269915	116605	24325	4467805
	Female	61615	849570	742460	1466620	931795	332700	186115	62950	4633825
	Total	126274	1743151	1503770	2899875	1835950	602615	302720	87275	9101630

Source: as per above

A note concerning

ONTARIO MINISTRY OF HEALTH CLASSIFICATION OF MORBIDITIES

Note that Chapter headings (17) are groupings of the Ontario Broad Codes (217), which are themselves groupings of the ICD-9 codes. The 15 leading causes of death are clearly time and place dependent, and represent alternative Ministry categorizations of ICD-9 codes. Breakdowns of heading titles are provided below. Classifications of Broad Codes within Chapters (and associated ICD-9 codes) are detailed in a publication titled Revised Ontario Broad Codes from the Data Development and Evaluation Branch of the Ministry of Health

ONTARIO BROAD CODE CHAPTERS

<u>Chapter</u>	<u>Description</u>
I	Infectious and parasitic diseases
II	Neoplasms
III	Endocrine, nutritional and metabolic diseases and immunity disorders
IV	Diseases of blood and blood-forming organs
V	Mental disorders
VI	Diseases of nervous system and sense organs
VII	Diseases of the circulatory system
VIII	Diseases of the respiratory system
IX	Diseases of the digestive system
X	Diseases of the genitourinary system
XI	Complications of pregnancy, childbirth and the puerperium
XII	Diseases of the skin and subcutaneous tissue
XIII	Diseases of the musculoskeletal system and connective tissue
XIV	Congenital Anomalies
XV	Certain conditions originating in the perinatal period
XVI	Symptoms, signs and ill-defined conditions
XVII	Injury and poisoning
V-codes	Supplementary classification of factors influencing health status and contact with health services
E-codes	Supplementary classification of external causes of injury and poisoning

15 LEADING CAUSES OF DEATH

<u>Cause#</u>	<u>ICD-9</u>	<u>Description</u>
1.	390-398, 410-416, 420-429	Diseases of the heart
2.	140-208, 230-234	Malignant neoplasms
3.	430-438	Cerebrovascular diseases
4.	E800-E949	Accidents
5.	440-448	Diseases of the arteries, arterioles, and capillaries
6.	480-487	Pneumonia and influenza
7.	E950-E959	Suicide and self-inflicted injury
8.	250	Diabetes mellitus
9.	571	Chronic liver diseases
10.	490-493	Bronchitis, emphysema and asthma
11.	740-759	Congenital anomalies
12.	760-779	Perinatal conditions
13.	401-405	Hypertension
14.	300-316	Neurotic disorders
15.	531-533	Peptic ulcers
16.	Not above	Other causes

THE 15 LEADING CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986

<u>CAUSE</u>	<u>FREQUENCY</u>	<u>THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986</u>	
001 DISEASES OF THE HEART	22014	<u>CAUSE: MALIGNANT NEOPLASMS</u>	<u>FREQUENCY</u>
002 MALIGNANT NEOPLASMS	17364		
003 CEREBROVASCULAR DISEASE	5283	<u>SUPPL CAUSE</u>	
004 ACCIDENTS	2844		
006 PNEUMONIA & INFLUENZA	2408	002 MALIGNANT NEOPLASM OF TRACHEA	4223
005 DISEASES OF THE ARTERIES, ETC.	2286		
008 DIABETES MELLITUS	1353	003 MALIGNANT NEOPLASM OF BREAST	1700
007 SUICIDE & SELF-INFLICTED INJ.	1131	001 MALIGNANT NEOPLASM OF COLON	1640
009 CHRONIC LIVER DISEASES	878	005 OTHER NEOPLASMS	9801
010 BRONCHITIS, EMPHYSEMA, ASTHMA	679		
011 CONGENITAL ANOMALIES	494	** NOTE: SOME SUPPL. CAUSES MAY NOT BE LISTED DUE TO THE FREQUENCY BEING ZERO	
013 HYPERTENSION	422		
012 PERINATAL CONDITIONS	408		
014 NEUROTIC DISORDERS	352		
015 PEPTIC ULCERS	281		
016 OTHER CAUSES	9667		

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY FREQUENCY OF OCCURRENCE : 1986

<u>CAUSE: DISEASES OF THE HEART</u>		<u>CAUSE: ACCIDENTS</u>	
<u>SUPPL CAUSE</u>	<u>FREQUENCY</u>	<u>SUPPL CAUSE</u>	<u>FREQUENCY</u>
001 ACUTE MYOCARDIAL INFARCTION	9772	001 MOTOR VEH. TRAFFIC ACCIDENT	1083
002 OTHER ISCHAEMIC HEART DISEASE	9323	005 FIRE AND FLAMES	130
003 HEART FAILURE	787	004 OTHER TRANSPORT ACCIDENT	95
		002 MOTOR VEH. NON-TRAFFIC ACCIDENT	39
		003 OTHER ROAD VEHICLE ACCIDENT	9
004 OTHER HEART	2132	006 OTHER INJURY/MISFORTUNE	1488

Source: Ontario Ministry of Health, Information & Systems Division, Information Resources & Services Branch

Exhibit 3.4

THE 15 LEADING CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986

CAUSE	\$ YEARS	
002 MALIGNANT NEOPLASMS	274315.2	
001 DISEASES OF THE HEART	252460.0	
004 ACCIDENTS	85251.0	
003 CEREBROVASCULAR DISEASE	54017.0	
007 SUICIDE & SELF-INFLICTED INJ.	38531.8	
011 CONGENITAL ANOMALIES	31890.5	
012 PERINATAL CONDITIONS	30620.0	
006 PNEUMONIA & INFLUENZA	22757.4	
005 DISEASES OF THE ARTERIES, ETC.	20694.3	
009 CHRONIC LIVER DISEASES	16845.1	
008 DIABETES MELLITUS	16637.2	
010 BRONCHITIS, EMPHYSEMA, ASTHMA	9436.3	
014 NEUROTIC DISORDERS	6055.1	
013 HYPERTENSION	4388.9	
015 PEPTIC ULCERS	3371.1	
016 OTHER CAUSES	147282.4	
** NOTE: SOME SUPPL. CAUSES MAY NOT BE LISTED DUE TO THE \$YEARS BEING ZERO		
002 MALIGNANT NEOPLASM OF TRACHEA	63823.4	
003 MALIGNANT NEOPLASM OF BREAST	34623.0	
001 MALIGNANT NEOPLASM OF COLON	22669.6	
005 OTHER NEOPLASMS	153196.8	

THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986

CAUSE: DISEASES OF THE HEART		
SUPPL CAUSE	\$ YEARS	THE LEADING SUPPL. CAUSES OF DEATH IN ONTARIO BY POTENTIAL YEARS OF LIFE LOST : 1986
001 ACUTE MYOCARDIAL INFARCTION	123044.8	CAUSE: ACCIDENTS
002 OTHER ISCHAEMIC HEART DISEASE	93253.5	SUPPL CAUSE
003 HEART FAILURE	6395.2	
004 OTHER HEART	29763.7	
		001 MOTOR VEH. TRAFFIC ACCIDENT 44337.0
		005 FIRE AND FLAMES 4021.4
		004 OTHER TRANSPORT ACCIDENT 3013.3
		002 MOTOR VEH. NON-TRAFFIC ACCIDENT 1806.8
		003 OTHER ROAD VEHICLE ACCIDENT 201.4
		006 OTHER INJURY/MISFORTUNE 30001.0

Source: Ontario Ministry of Health, Information & Systems Division, Information Resources & Services Branch

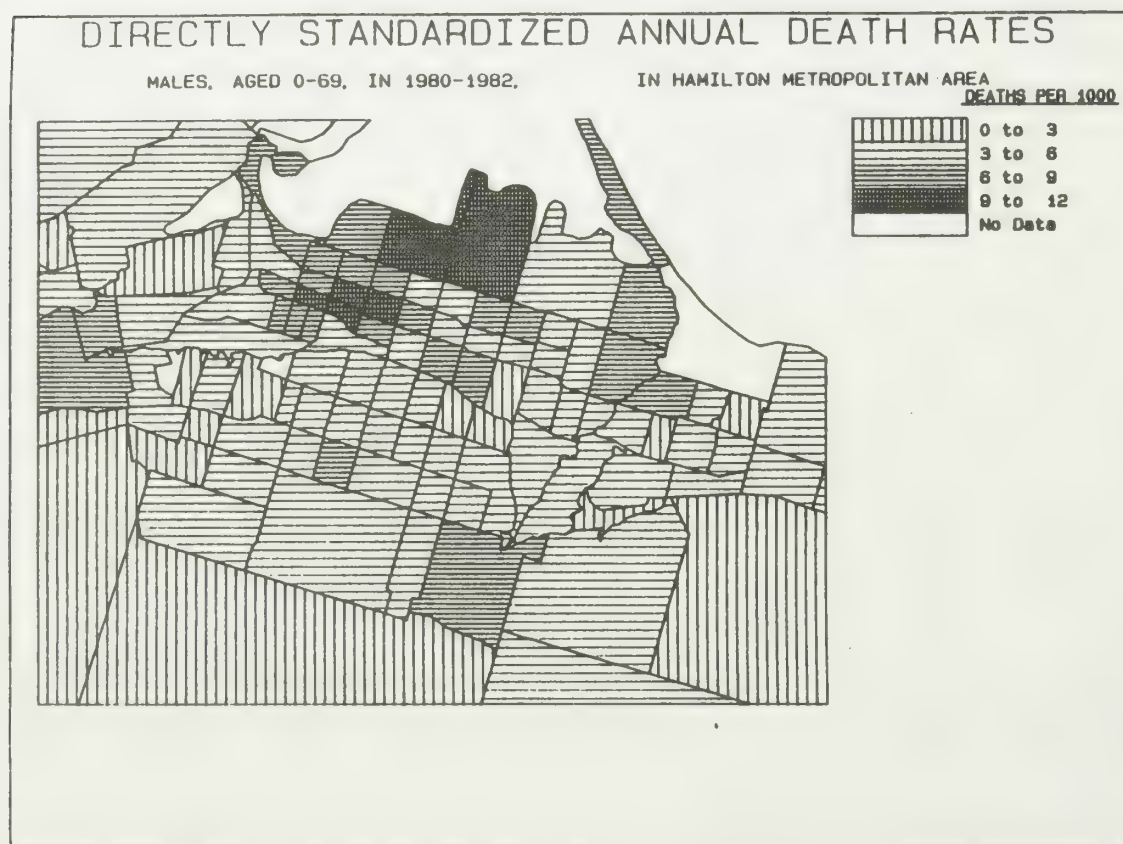
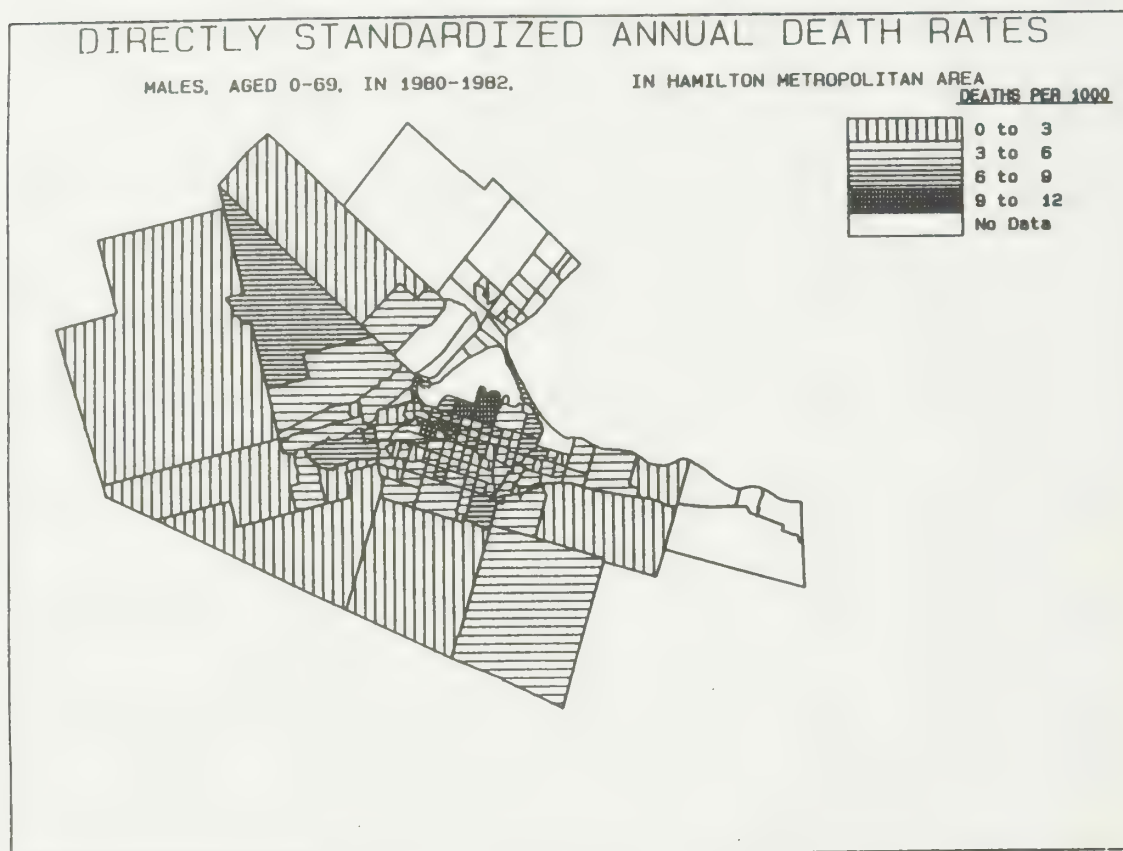
LEADING SUPPLEMENTARY CAUSES OF DEATH IN ONTARIO IN 1986
INDICATOR I - MORTALITY RATES

Exhibit 3.5

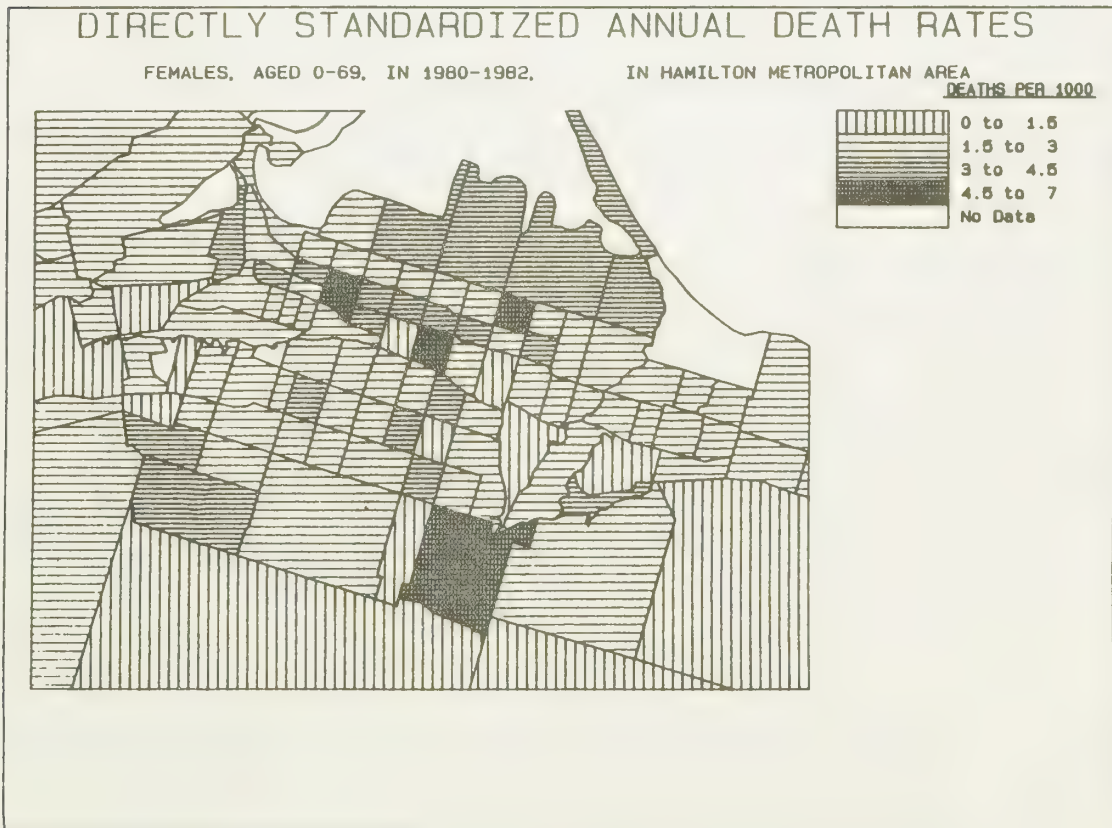
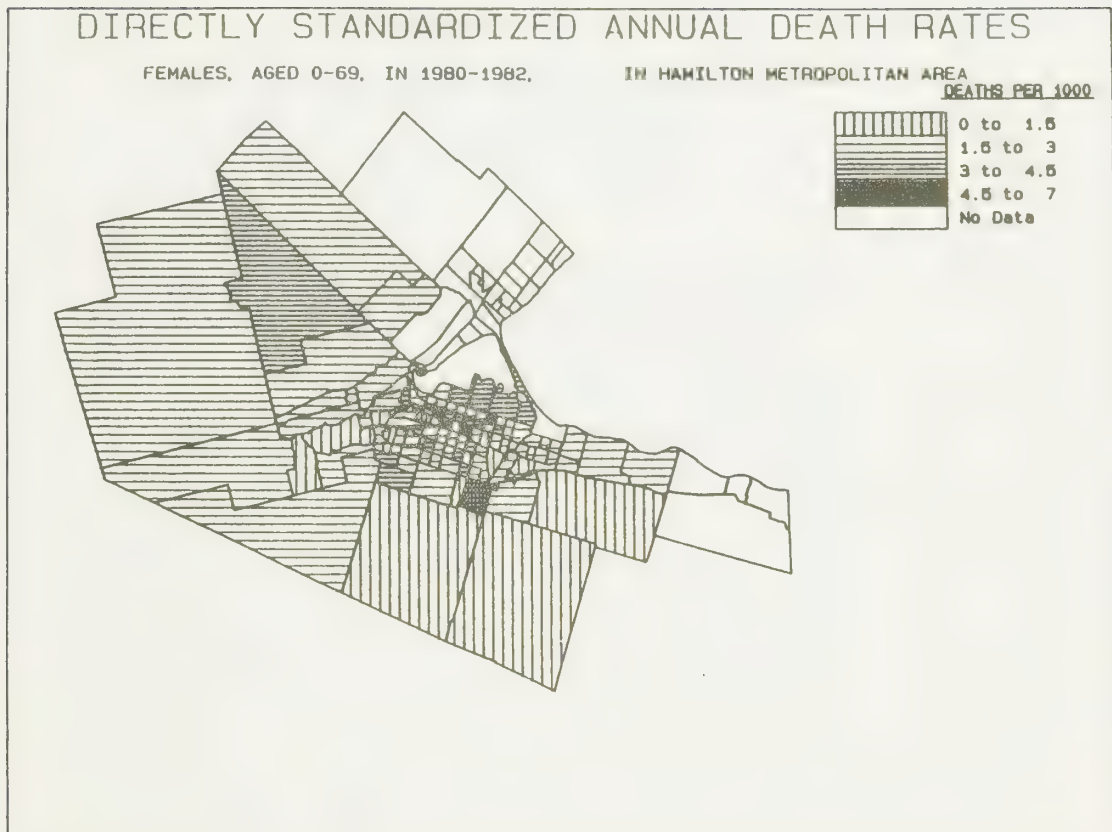
SUPPL. CAUSES : REGION SEX QUANTITY				DISEASES OF THE HEART				MALIGNANT NEOPLASMS				ACCIDENTS						
				001	002	003	004	002	003	001	004	005	001	005	004	002	003	006
TOTAL - PROVINCE OF ONTARIO				9772	9323	787	2132	4223	1700	1640	0	9801	1083	130	95	39	9	1488
NUMBER				1.07	1.02	.09	.23	.46	.19	.18	.00	1.08	.12	.01	.01	.00	.00	.16
STD. RATE				1.07	1.02	.09	.23	.46	.19	.18	.00	1.08	.12	.01	.01	.00	.00	.16
SIGN																		
MALE				5813	4707	330	1073	2967	8	819	0	5584	740	80	93	36	6	816
NUMBER				1.30	1.05	.07	.24	.66	.00	.18	.00	1.25	.17	.02	.02	.01	.00	.18
RATE				1.30	1.05	.07	.24	.66	.00	.18	.00	1.25	.17	.02	.02	.01	.00	.18
STD. RATE																		
SIGN																		
FEMALE				3959	4616	457	1059	1256	1692	821	0	4217	343	50	2	3	3	672
NUMBER				.85	1.00	.10	.23	.27	.37	.18	.00	.91	.07	.01	.00	.00	.00	.15
RATE				.85	1.00	.10	.23	.27	.37	.18	.00	.91	.07	.01	.00	.00	.00	.15
STD. RATE																		
SIGN																		
CENTRAL WEST				1779	2283	133	423	845	333	310	0	1911	206	27	14	7	1	268
NUMBER				1.01	1.30	.08	.24	.48	.19	.18	.00	1.08	.12	.02	.01	.00	.00	.15
RATE				.98	1.25	.07	.23	.47	.18	.17	.00	1.06	.12	.02	.01	.00	.00	.15
STD. RATE																		
SIGN				-	+													
MALE				1045	1192	51	194	589	1	162	0	1086	141	21	14	7	1	132
NUMBER				1.21	1.38	.06	.22	.68	.00	.19	.00	1.25	.16	.02	.02	.01	.00	.15
RATE				1.17	1.33	.06	.22	.66	.00	.18	.00	1.22	.16	.02	.02	.01	.00	.15
STD. RATE																		
SIGN				-	+													
FEMALE				734	1091	82	229	256	332	148	0	825	65	6	0	0	0	136
NUMBER				.82	1.22	.09	.26	.29	.37	.17	.00	.92	.07	.01	.00	.00	.00	.15
RATE				.79	1.17	.09	.25	.28	.36	.16	.00	.90	.07	.01	.00	.00	.00	.15
STD. RATE																		
SIGN					+													
HAMILTON-WENTWORTH, REG. MUN. OF				410	679	37	103	233	80	64	0	509	34	11	3	1	0	69
TOTAL				.97	1.60	.09	.24	.55	.19	.15	.00	1.20	.08	.03	.01	.00	.00	.16
NUMBER				.87	1.44	.08	.22	.50	.17	.14	.00	1.09	.08	.03	.01	.00	.00	.15
RATE																		
STD. RATE																		
SIGN				-	+					-								
MALE				246	353	12	48	170	1	26	0	282	25	9	3	1	0	38
NUMBER				1.19	1.71	.06	.23	.82	.00	.13	.00	1.37	.12	.04	.01	.00	.00	.18
RATE				1.08	1.54	.05	.21	.74	.00	.11	.00	1.24	.12	.04	.01	.01	.00	.18
STD. RATE																		
SIGN				-	+					-								
FEMALE				164	326	25	55	63	79	38	0	227	9	2	0	0	0	31
NUMBER				.76	1.50	.12	.25	.29	.36	.18	.00	1.05	.04	.01	.00	.00	.00	.14
RATE				.67	1.33	.10	.23	.26	.34	.16	.00	.95	.04	.01	.00	.00	.00	.13
STD. RATE																		
SIGN				-	+													

Source: Ontario Ministry of Health, Information & Systems Division, Information Resources
& Services Branch (compiled from Information Retrieval Project JCPA 880614, Reports 1&2)

[Please refer to the preceding page for code labels]



Source: Liaw, K-L; Wort, S.; Hayes, M.V. 1987. Intraurban variation in pre-mature deaths and income inequality: a case study of Hamilton-Wentworth county. McMaster University: QSEP Research Report No. 206. (Tables 6A.6B)



Source: Liaw, K-L; Wort, S.; Hayes, M.V. 1987. Intraurban variation in pre-mature deaths and income inequality: a case study of Hamilton-Wentworth county. McMaster University: QSEP Research Report No. 206. (Tables 5A, 5B)

Exhibit 3.8
MORTALITY BY AGE GROUP AND CAUSE
HAMILTON-WENTWORTH MALES
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. S.RATE	95% LOWER UPPER
MORTALITY CAUSE												
ALL INFECTIOUS DISEASES	DEATHS: RATE:	1 0.35	0 0.00	0 0.00	0 0.00	5 0.11	3 0.21	3 0.51	1 0.02	13 0.06	1.43 0.06	0.761 2.445
ALL NEOPLASMS	DEATHS: RATE:	0 0.00	0 0.00	3 0.09	19 0.30	153 3.44	140 9.96	128 21.64	35 28.69	478 2.32	1.01 2.13	0.924 1.104
ALL ENDOCRINE, METAL, NUT., + IMM.	DEATHS: RATE:	1 0.35	0 0.00	0 0.00	0 0.00	11 0.25	8 0.57	7 1.18	6 4.92	33 0.16	0.72 0.15	0.502 1.001
ALL BLOOD DISEASES + B.V.	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	2 0.03	11 0.25	21 1.49	18 3.04	15 12.30	67 0.32	1.02 0.30	0.001 1.295
MENTAL DISORDERS	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	1 0.02	3 0.07	1 0.07	3 0.51	2 1.64	10 0.05	0.52 0.05	0.250 0.957
ALL N.S. & SENSE ORGANS	DEATHS: RATE:	0 0.00	0 0.00	3 0.09	1 0.02	7 0.16	14 1.00	10 1.69	4 3.28	39 0.19	1.09 0.17	0.770 1.402
ISCHAEMIC HEART DISEASES	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	12 0.19	136 3.05	201 14.31	163 27.56	85 69.67	597 2.89	1.13 2.64	1.042 1.225
ALL OTHER HEART DISEASES	DEATHS: RATE:	0 0.00	1 0.03	1 0.03	0 0.00	8 0.18	19 1.35	21 3.55	15 12.30	65 0.32	0.81 0.29	0.624 1.053
CEREBROVASCULAR DISEASES	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	1 0.02	15 0.34	32 2.28	30 5.07	21 17.21	99 0.48	0.92 0.44	0.753 1.122
RESPIRATORY DISEASES	DEATHS: RATE:	1 0.35	0 0.00	1 0.03	4 0.06	21 0.47	29 2.06	56 9.47	33 27.05	145 0.70	0.95 0.64	0.002 1.125
ALL GASTROINTESTINAL DISEASES	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	3 0.05	29 0.65	21 1.49	17 2.87	12 9.04	82 0.40	1.23 0.37	0.902 1.537
ALL GENITOURINARY DISEASES	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	0 0.00	5 0.11	5 0.36	13 2.20	8 6.56	31 0.15	1.20 0.14	0.810 1.716
DISEASES OF SKIN/MUSCULOSKELETAL	DEATHS: RATE:	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1 0.07	3 0.51	0 0.00	4 0.02	0.60 0.02	0.210 2.040
CONG. ANOMALIES/PERINATAL CONDITION	DEATHS: RATE:	14 4.85	1 0.03	2 0.06	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	17 0.00	0.77 0.09	0.449 1.232
ILL DEFINED SYMPTOMS, CONDITIONS	DEATHS: RATE:	3 1.04	0 0.00	1 0.03	3 0.05	11 0.25	4 0.28	3 0.51	2 1.64	27 0.13	0.94 0.12	0.619 1.372
MOTOR VEHICLE ACCIDENTS	DEATHS: RATE:	0 0.00	3 0.06	14 0.40	4 0.06	4 0.09	0 0.00	0 0.00	0 0.00	25 0.12	0.70 0.12	0.453 1.036
ALL OTHER ACCIDENTS	DEATHS: RATE:	0 0.00	6 0.15	4 0.12	12 0.19	5 0.11	10 0.71	6 1.01	5 4.10	48 0.23	1.01 0.23	0.749 1.333
SUICIDE	DEATHS: RATE:	0 0.00	0 0.00	4 0.12	21 0.33	8 0.18	2 0.14	2 0.34	1 0.82	38 0.18	0.95 0.18	0.670 1.292
ALL OTHER VIOLENT DEATHS	DEATHS: RATE:	0 0.00	0 0.00	3 0.09	1 0.02	3 0.07	2 0.14	1 0.17	0 0.00	10 0.05	1.74 0.05	0.835 3.202
TOTAL	DEATHS: RATE:	20 6.93	11 0.28	36 1.04	24 1.32	438 9.77	513 36.51	484 81.83	245 200.82	1028 8.86	1.02 8.17	0.950 1.605

Source: Alder R. and Eastridge L. 1988. Morbidity and mortality statistics, Hamilton-Wentworth, 1981 & 1986. Toronto: Ontario Ministry of Health.

NOTE: Please refer to the notes at the beginning of this chapter when consulting Exhibits 3.8-3.13

Also note that the above diagnostic categories are based on diagnostic chapters.

Exhibit 3.9
MORTALITY BY AGE GROUP AND CAUSE
HAMILTON-WENTWORTH FEMALES
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. S.RATE	95% LOWER UPPER
MORTALITY CAUSE												
ALL INFECTIOUS DISEASES	DEATHS:	0	0	0	0	3	1	6	5	15	1.51	0.044
	RATE:	0.00	0.00	0.00	0.00	0.06	0.06	0.60	1.49	0.07	0.06	2.491
ALL NEOPLASMS	DEATHS:	0	1	2	20	127	110	106	45	411	1.00	0.906
	RATE:	0.00	0.03	0.06	0.31	2.72	6.53	10.66	13.45	1.69	1.74	1.104
ALL ENDOCRINE, METAL, NUT., + IMM.	DEATHS:	0	0	0	1	5	12	9	4	31	0.62	0.416
	RATE:	0.00	0.00	0.00	0.02	0.11	0.71	0.90	1.20	0.14	0.13	0.687
ALL BLOOD DISEASES + B.V.	DEATHS:	0	0	0	1	1	14	17	27	60	0.83	0.639
	RATE:	0.00	0.00	0.00	0.02	0.02	0.63	1.71	8.07	0.28	0.25	1.079
MENTAL DISORDERS	DEATHS:	0	0	0	0	0	1	1	4	6	0.26	0.095
	RATE:	0.00	0.00	0.00	0.00	0.00	0.06	0.10	1.20	0.03	0.02	0.567
ALL N.S. & SENSE ORGANS	DEATHS:	0	0	2	1	4	4	8	6	25	0.66	0.427
	RATE:	0.00	0.00	0.06	0.02	0.09	0.24	0.80	1.79	0.12	0.11	0.977
ISCHAEMIC HEART DISEASES	DEATHS:	0	0	0	2	44	86	174	182	490	1.09	0.997
	RATE:	0.00	0.00	0.00	0.03	0.94	5.22	17.50	54.41	2.26	2.02	1.191
ALL OTHER HEART DISEASES	DEATHS:	0	0	0	3	10	10	34	34	91	1.00	0.809
	RATE:	0.00	0.00	0.00	0.05	0.21	0.59	3.42	10.16	0.42	0.38	1.240
CEREBROVASCULAR DISEASES	DEATHS:	0	0	0	3	10	22	46	73	154	0.93	0.794
	RATE:	0.00	0.00	0.00	0.05	0.21	1.31	4.63	21.02	0.71	0.63	1.069
RESPIRATORY DISEASES	DEATHS:	2	1	0	1	11	21	38	61	135	1.14	0.962
	RATE:	0.72	0.03	0.00	0.02	0.24	1.25	3.82	18.24	0.62	0.56	1.350
ALL GASTROINTESTINAL DISEASES	DEATHS:	0	0	0	3	14	13	17	24	71	1.13	0.687
	RATE:	0.00	0.00	0.00	0.05	0.30	0.77	1.71	7.17	0.33	0.30	1.435
ALL GENITOURINARY DISEASES	DEATHS:	2	0	0	0	4	9	12	9	36	1.47	1.025
	RATE:	0.72	0.00	0.00	0.00	0.09	0.53	1.21	2.69	0.17	0.15	2.043
DISEASES OF SKIN/MUSKULOSKELETAL	DEATHS:	0	0	0	0	2	4	3	3	12	0.97	0.501
	RATE:	0.00	0.00	0.00	0.00	0.04	0.24	0.30	0.90	0.06	0.05	1.697
CONG. ANOMALIES/PERINATAL CONDITION	DEATHS:	12	1	0	2	0	0	1	0	16	0.87	0.498
	RATE:	4.31	0.03	0.00	0.03	0.00	0.00	0.10	0.00	0.07	0.08	1.489
ILL DEFINED SYMPTOMS, CONDITIONS	DEATHS:	6	1	0	2	8	2	5	2	29	1.04	0.497
	RATE:	2.07	0.03	0.00	0.03	0.17	0.12	0.50	0.60	0.13	0.12	1.498
MOTOR VEHICLE ACCIDENTS	DEATHS:	0	1	1	6	0	1	0	0	9	0.55	0.252
	RATE:	0.00	0.03	0.03	0.09	0.00	0.06	0.00	0.00	0.04	0.04	1.045
ALL OTHER ACCIDENTS	DEATHS:	0	1	0	3	4	6	2	17	33	0.68	0.613
	RATE:	0.00	0.03	0.00	0.05	0.09	0.36	0.20	5.08	0.15	0.14	1.223
SUICIDE	DEATHS:	0	0	2	2	4	3	0	0	11	0.63	0.414
	RATE:	0.00	0.00	0.06	0.03	0.09	0.18	0.00	0.00	0.05	0.05	1.486
ALL OTHER VIOLENT DEATHS	DEATHS:	0	0	2	3	0	0	0	0	5	1.43	0.463
	RATE:	0.00	0.00	0.06	0.05	0.00	0.00	0.00	0.00	0.02	0.02	3.332
TOTAL	DEATHS:	24	6	9	53	251	321	479	496	1640	1.00	0.939
	RATE:	8.62	0.16	0.26	0.81	5.39	19.06	48.16	148.26	7.55	6.84	1.064

Source: as per Exhibit 3.8

Notes: refer to Exhibit 3.8

Exhibit 3.10
MORTALITY BY AGE GROUP AND CAUSE
HAMILTON-WENTWORTH
1986

AGE (IN YEARS):		UNDER 1 YEAR	1 - 14	15 - 24	25 - 44	45 - 64	65 - 74	75 - 84	85+	TOTAL	S.M.R. 2.RATE	95% LOWER UPPER
MORTALITY CAUSE												
ALL INFECTIOUS DISEASES	DEATHS:	1	0	0	0	0	4	9	6	28	1.47	0.970
	RATE:	0.18	0.00	0.00	0.00	0.09	0.13	0.57	1.31	0.07	0.06	2.131
ALL NEOPLASMS	DEATHS:	0	1	5	39	200	250	234	80	889	1.00	0.934
	RATE:	0.00	0.01	0.07	0.30	3.07	0.09	14.75	17.52	2.10	1.92	1.060
ALL ENDOCRINE, METAL, NUT., & IMM.	DEATHS:	1	0	0	1	16	20	16	10	64	0.67	0.516
	RATE:	0.18	0.00	0.00	0.01	0.18	0.65	1.01	2.19	0.15	0.14	0.671
ALL BLOOD DISEASES & B.V.	DEATHS:	0	0	0	3	12	35	35	42	127	0.92	0.766
	RATE:	0.00	0.00	0.00	0.02	0.13	1.13	2.21	9.20	0.30	0.27	1.104
MENTAL DISORDERS	DEATHS:	0	0	0	1	3	2	4	6	16	0.30	0.217
	RATE:	0.00	0.00	0.00	0.01	0.03	0.06	0.25	1.31	0.04	0.03	0.616
ALL N.S. & SENSE ORGANS	DEATHS:	0	0	5	2	11	18	18	10	64	0.87	0.670
	RATE:	0.00	0.00	0.07	0.02	0.12	0.50	1.13	2.19	0.15	0.14	1.131
ISCHAEMIC HEART DISEASES	DEATHS:	0	0	0	14	100	209	337	267	1087	1.11	1.042
	RATE:	0.00	0.00	0.00	0.11	1.97	9.35	21.25	50.49	2.57	2.32	1.101
ALL OTHER HEART DISEASES	DEATHS:	0	1	1	3	10	29	55	49	156	0.91	0.777
	RATE:	0.00	0.01	0.01	0.02	0.20	0.94	3.47	10.73	0.37	0.33	1.066
CEREBROVASCULAR DISEASES	DEATHS:	0	0	0	4	25	54	76	94	253	0.93	0.820
	RATE:	0.00	0.00	0.00	0.03	0.27	1.75	4.79	20.59	0.60	0.54	1.055
RESPIRATORY DISEASES	DEATHS:	3	1	1	5	32	50	94	94	280	1.02	0.910
	RATE:	0.53	0.01	0.01	0.04	0.35	1.62	5.93	20.59	0.66	0.60	1.143
ALL GASTROINTESTINAL DISEASES	DEATHS:	0	0	0	6	43	34	34	36	153	1.10	1.000
	RATE:	0.00	0.00	0.00	0.05	0.47	1.10	2.14	7.89	0.36	0.33	1.382
ALL GENITOURINARY DISEASES	DEATHS:	2	0	0	0	9	14	25	17	67	1.33	1.044
	RATE:	0.35	0.00	0.00	0.00	0.10	0.45	1.50	3.72	0.16	0.14	1.609
DISEASES OF SKIN/MUSKULOSKELETAL	DEATHS:	0	0	0	0	2	5	6	3	16	0.93	0.532
	RATE:	0.00	0.00	0.00	0.00	0.02	0.16	0.30	0.66	0.04	0.03	1.507
CONG. ANOMALIES/PERINATAL CONDITION	DEATHS:	26	2	2	2	0	0	1	0	33	0.61	0.565
	RATE:	4.59	0.03	0.03	0.02	0.00	0.00	0.06	0.00	0.08	0.08	1.126
ILL DEFINED SYMPTOMS, CONDITIONS	DEATHS:	11	1	1	5	19	6	0	4	56	0.99	0.762
	RATE:	1.94	0.01	0.01	0.04	0.21	0.19	0.50	0.60	0.13	0.12	1.207
MOTOR VEHICLE ACCIDENTS	DEATHS:	0	4	15	10	4	1	0	0	34	0.65	0.453
	RATE:	0.00	0.05	0.22	0.08	0.04	0.03	0.00	0.00	0.08	0.06	0.903
ALL OTHER ACCIDENTS	DEATHS:	0	7	4	15	9	16	0	22	81	0.95	0.750
	RATE:	0.00	0.09	0.06	0.12	0.10	0.52	0.50	4.02	0.19	0.18	1.107
SUICIDE	DEATHS:	0	0	6	23	12	5	2	1	49	0.92	0.603
	RATE:	0.00	0.00	0.09	0.18	0.13	0.16	0.13	0.22	0.12	0.11	1.214
ALL OTHER VIOLENT DEATHS	DEATHS:	0	0	5	4	3	2	1	0	15	1.62	0.907
	RATE:	0.00	0.00	0.07	0.03	0.03	0.06	0.06	0.00	0.04	0.03	2.673
TOTAL	DEATHS:	44	17	45	137	606	634	963	741	3468	1.01	0.940
	RATE:	7.76	0.22	0.65	1.06	7.53	26.99	60.72	162.32	8.19	7.40	1.075

Source: as per Exhibit 3.8
Notes: refer to Exhibit 3.8

Exhibit 3.11
MORBIDITY BY AGE GROUP AND DIAGNOSTIC CATEGORY
HAMILTON-WENTWORTH MALES
1986

AGE (IN YEARS):		1986										TOTAL	S.M.R. RATE	95% LOWER UPPER
MORBIDITY CAUSE		1-14	15-24	25-44	45-64	65-74	75-84	85+						
ALL INFECTIOUS DISEASES	SEPS. RATE:	117 40.57	205 5.22	41 1.10	67 1.05	40 0.90	16 1.14	32 5.41	0 6.56	526 2.55	1.04 2.60	0.952 1.137		
	SEPS. RATE:	2 0.69	35 0.89	61 1.75	153 2.40	591 13.27	598 42.56	380 64.24	83 68.03	1903 9.22	0.91 0.56	0.854 0.968		
- LUNG CANCER	SEPS. RATE:	0 0.00	0 0.00	0 0.00	9 0.14	126 2.83	124 6.83	54 9.13	7 5.74	320 1.55	0.90 1.42	0.803 1.009		
- COLORECTAL CANCER	SEPS. RATE:	0 0.00	0 0.00	0 0.00	4 0.06	56 1.26	49 3.49	36 6.09	12 9.84	157 0.76	0.75 0.70	0.640 0.878		
- BREAST CANCER	SEPS. RATE:	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	3 0.51	0 0.00	3 0.01	1.17 0.01	0.241 3.416		
ALL ENDOCRINE, METAL, NUT., + IMM.	SEPS. RATE:	4 1.39	24 0.61	33 0.95	71 1.11	101 2.27	79 5.62	54 9.13	22 18.03	368 1.88	0.73 1.60	0.661 0.806		
- DIABETES MELLITUS	SEPS. RATE:	0 0.00	11 0.28	22 0.63	40 0.75	75 1.68	54 3.04	32 5.41	6 4.92	268 1.20	0.71 1.15	0.626 0.805		
ALL BLOOD DISEASES + BV.	SEPS. RATE:	3 1.04	31 0.79	59 1.67	115 1.81	310 6.96	230 16.37	108 18.26	29 23.77	864 4.28	0.98 4.04	0.917 1.047		
ALL MENTAL DISORDERS	SEPS. RATE:	1 0.35	6 0.15	141 4.05	384 6.03	199 4.47	82 5.84	69 11.67	25 20.49	907 4.40	0.73 4.33	0.683 0.780		
- NEUROSES	SEPS. RATE:	1 0.35	0 0.00	14 0.40	41 0.64	31 0.70	10 0.71	10 1.69	0 0.00	107 0.52	0.63 0.51	0.515 0.769		
- PERSONALITY DISORDERS	SEPS. RATE:	0 0.00	5 0.13	63 1.81	90 1.41	35 0.79	19 1.35	13 2.20	5 4.10	230 1.11	0.71 1.11	0.626 0.805		
ALL N.S. & SENSE ORGANS	SEPS. RATE:	25 8.67	118 3.00	50 1.44	162 2.54	291 6.53	301 21.42	217 36.69	45 36.89	1210 5.86	0.91 5.56	0.854 0.968		
- CATARACTS	SEPS. RATE:	0 0.00	0 0.00	0 0.00	11 0.17	127 2.85	172 12.24	138 23.33	26 21.31	474 2.30	1.09 2.10	0.993 1.197		
ACUTE MYOCARDIAL INFARCTION	SEPS. RATE:	0 0.00	0 0.00	0 0.00	54 0.86	303 6.80	192 13.67	109 18.43	17 13.93	675 3.27	1.07 3.03	0.993 1.153		
OTHER ISCHAEMIC HEART	SEPS. RATE:	0 0.00	0 0.00	0 0.00	87 1.37	618 13.88	313 22.28	179 30.26	37 30.33	1234 5.90	0.90 5.55	0.920 1.043		
ALL OTHER HEART DISEASES	SEPS. RATE:	4 1.39	1 0.03	12 0.36	70 1.10	271 6.09	222 18.00	188 31.78	69 56.36	838 4.06	0.76 3.76	0.708 0.815		
CEREBROVASCULAR DISEASES	SEPS. RATE:	0 0.00	1 0.03	2 0.06	27 0.42	167 3.75	166 11.81	152 25.70	41 33.61	557 2.70	0.88 2.48	0.811 0.954		
ALL RESPIRATORY DISEASES	SEPS. RATE:	180 62.41	779 19.63	176 5.06	202 3.17	280 6.29	274 19.50	251 42.43	70 63.93	2220 10.76	0.68 10.66	0.639 0.724		
- ACUTE RESPIRATORY INFECTION	SEPS. RATE:	31 10.75	92 2.34	9 0.26	11 0.17	5 0.11	2 0.14	2 0.34	1 0.62	153 0.74	0.44 0.77	0.376 0.515		
- CHRONIC TONSILS & ADENOIDS	SEPS. RATE:	1 0.35	402 10.24	58 1.67	34 0.57	4 0.09	0 0.00	0 0.00	0 0.00	501 2.43	0.92 2.54	0.842 1.006		
- PNEUMONIA	SEPS. RATE:	29 10.06	95 2.42	14 0.40	29 0.46	74 1.66	68 4.84	86 14.54	47 38.52	442 2.14	0.77 2.06	0.701 0.845		
- ASTHMA	SEPS. RATE:	36 12.40	126 3.21	12 0.35	14 0.22	29 0.65	21 1.49	4 0.60	1 0.81	243 1.18	0.46 1.20	0.406 0.522		



Source: Alder R. and Eastridge L. 1988. Morbidity and mortality statistics, Hamilton-Wentworth, 1981 & 1986. Toronto: Ontario Ministry of Health.

Note: Please refer to the notes at the beginning of this chapter when consulting Exhibits 3.11-3.13

Figures are based on hospital separations for Hamilton-Wentworth residents, regardless of treatment site (compiled from HMRI database)

AGE (IN YEARS): MORTALITY CAUSE	SEPS. RATE:	1-14	15-24	25-44	45-64	65-74	75-84	85+	TOTAL	S.M.R. S.RATE	95% LOWER LIMIT
ALL GASTROINTESTINAL DISEASES	SEPS. RATE:	41	119	249	654	1054	405	297	2953	0.87	0.417
		14.22	3.03	7.16	18.30	23.67	34.52	46.52	14.31	13.75	0.926
--APPENDICITIS	SEPS. RATE:	8	37	66	72	20	10	4	217	0.83	0.720
		0.00	0.94	1.90	1.13	0.63	0.71	0.68	1.05	1.06	0.955
--HERNIA	SEPS. RATE:	10	21	66	194	306	134	62	879	0.97	0.908
		3.47	0.53	1.90	3.05	0.67	9.54	10.40	4.26	4.09	1.036
--CHOLELITHIASIS	SEPS. RATE:	0	0	5	40	141	71	50	340	1.09	0.900
		0.00	0.00	0.14	0.94	3.17	5.05	9.01	1.65	1.55	1.212
--ENTERITIS/COLITIS	SEPS. RATE:	3	17	20	30	29	12	10	130	0.41	0.342
		1.04	0.43	0.50	0.60	0.65	0.85	1.69	0.62	0.62	0.492
ALL GENITOURINARY DISEASES	SEPS. RATE:	12	73	84	231	541	440	305	1764	0.94	0.803
		4.16	1.66	2.42	3.63	12.60	31.09	51.56	40.90	8.05	1.000
--PROSTATE HYPERPLASIA	SEPS. RATE:	0	0	0	4	216	270	160	675	1.04	0.945
		0.00	0.00	0.00	0.04	4.05	19.22	20.40	13.93	2.90	1.121
ALL DISEASES SKIN/MUSCULOSKELETAL	SEPS. RATE:	9	90	223	630	609	239	101	1919	1.03	0.967
		3.12	2.29	6.41	9.09	13.60	17.01	17.00	13.93	9.89	1.096
--ARTHRITIS	SEPS. RATE:	0	11	83	200	213	109	54	604	1.23	1.141
		0.00	0.20	2.39	3.27	4.70	7.76	9.47	3.20	3.21	1.326
CONGENITAL ANOMALIES	SEPS. RATE:	100	97	20	24	10	1	2	270	0.77	0.679
		37.05	2.47	0.50	0.30	0.40	0.07	0.34	1.31	1.35	0.873
PERINATAL CONDITIONS	SEPS. RATE:	500	0	0	0	0	0	0	500	0.55	0.503
		173.37	0.00	0.00	0.00	0.00	0.00	0.00	2.42	2.51	0.401
ILL DEFINED SYMPTOMS, CONDITIONS	SEPS. RATE:	62	154	70	303	463	196	152	1467	0.81	0.761
		20.43	3.92	2.24	4.76	10.40	13.95	25.70	31.97	6.90	0.862
--GENERAL SYMPTOMS	SEPS. RATE:	40	95	13	41	99	46	40	394	0.84	0.761
		13.67	2.42	0.37	0.64	2.22	3.27	0.11	1.91	1.87	0.927
--RESPIRATORY SYMPTOMS	SEPS. RATE:	13	5	3	115	180	53	29	390	0.62	0.743
		4.51	0.13	0.69	1.01	4.04	3.77	4.90	1.93	1.66	0.905
TRAUMA	SEPS. RATE:	12	206	416	525	274	97	62	1709	0.84	0.789
		4.16	7.20	11.96	0.24	6.15	6.90	10.40	30.33	0.30	0.694
OTHER INJ., POISONING	SEPS. RATE:	7	49	49	115	173	90	46	530	0.99	0.906
		2.43	1.25	1.41	1.01	3.09	6.41	7.70	2.61	2.52	1.002
SUPPLEMENTARY V CODES	SEPS. RATE:	2639	43	46	109	151	145	74	3225	1.09	1.024
		915.05	1.09	1.32	1.71	3.39	10.32	12.51	15.63	15.95	1.160
OTHER/UNKNOWN	SEPS. RATE:	0	0	1	1	0	3	0	5	0.17	0.855
		0.00	0.00	0.03	0.02	0.00	0.21	0.00	0.02	0.02	0.396
TOTAL	SEPS. RATE:	3746	2111	1740	3904	6474	4177	2768	25692	0.86	0.826
		1290.89	53.75	50.64	145.39	297.30	467.96	542.30	124.52	120.61	0.936

Exhibit 3.12
MORBIDITY BY AGE GROUP AND DIAGNOSTIC CATEGORY
HAMILTON-WENTWORTH FEMALES
1986

AGE (IN YEARS): MORBIDITY CAUSE	UNDER 1 YEAR											S.M.R. RATE	95% LOWER UPPER
	1-14	15-24	25-44	45-64	65-74	75-84	85+	TOTAL					
ALL INFECTIOUS DISEASES	SEPS. RATE: 29.08	61 177	47 1.77	72 1.10	47 1.01	31 1.04	17 5.08	517	0.96	2.41	0.078	1.049	
ALL NEOPLASMS	SEPS. RATE: 1.00	5 30	65 1.60	382 5.04	777 16.67	460 27.31	68 26.31	2104	0.85	9.20	0.798	0.984	
— LUNG CANCER	SEPS. RATE: 0.00	0 0	0 0.00	3 0.05	53 1.14	31 1.04	4 1.20	111	0.69	0.47	0.575	0.628	
— COLORECTAL CANCER	SEPS. RATE: 0.00	0 0	0 0.00	3 0.05	61 1.31	52 3.09	17 5.08	173	0.90	0.73	0.776	1.044	
— BREAST CANCER	SEPS. RATE: 0.00	0 0	0 0.00	49 0.75	171 3.67	82 4.87	14 4.19	359	0.95	1.55	0.854	1.056	
ALL ENDOCRINE, METAL, MUT., + IMM.	SEPS. RATE: 1.00	31 0.02	24 0.70	124 1.98	125 2.60	91 5.40	44 13.15	538	0.72	2.37	0.659	0.787	
— DIABETES MELLITUS	SEPS. RATE: 0.00	21 0.56	17 0.49	44 0.67	58 1.24	44 2.61	9 2.69	232	0.56	1.03	0.494	0.635	
ALL BLOOD DISEASES + BV.	SEPS. RATE: 1.00	26 0.69	25 0.72	141 2.16	246 5.28	154 9.14	63 18.03	700	0.93	3.41	0.867	0.997	
ALL MENTAL DISORDERS	SEPS. RATE: 0.36	17 0.45	111 3.22	315 4.82	237 5.00	127 7.54	46 13.75	971	0.63	4.35	0.592	0.678	
— NEUROSES	SEPS. RATE: 0.00	7 0.19	10 0.52	55 0.84	63 1.35	31 1.04	3 0.90	196	0.56	0.88	0.486	0.645	
— PERSONALITY DISORDERS	SEPS. RATE: 0.36	6 0.21	62 1.80	106 1.62	53 1.14	28 1.66	4 1.20	284	0.63	1.30	0.562	0.706	
ALL N.S. & SENSE ORGANS	SEPS. RATE: 0.26	99 2.63	50 1.45	175 2.60	342 7.34	367 21.79	106 31.69	1524	0.92	6.60	0.844	0.979	
— CATARACTS	SEPS. RATE: 0.00	2 0.05	1 0.03	9 0.14	124 2.64	254 15.00	87 26.01	743	1.09	3.10	1.012	1.175	
ACUTE MYOCARDIAL INFARCTION	SEPS. RATE: 0.00	0 0.00	0 0.00	6 0.09	68 1.46	110 6.53	40 11.96	345	0.95	1.44	0.854	1.056	
OTHER ISCHAEMIC HEART	SEPS. RATE: 0.00	1 0.03	0 0.00	17 0.26	240 5.15	233 13.83	74 22.12	703	0.95	3.30	0.885	1.018	
ALL OTHER HEART DISEASES	SEPS. RATE: 0.00	5 0.13	6 0.17	40 0.73	175 3.78	202 11.99	140 44.25	894	0.77	3.75	0.721	0.822	
CEREBROVASCULAR DISEASES	SEPS. RATE: 1	1 0.03	2 0.06	22 0.34	65 1.82	130 7.72	106 31.69	536	0.84	2.24	0.769	0.918	
ALL RESPIRATORY DISEASES	SEPS. RATE: 101 36.27	698 18.55	241 6.90	222 3.39	219 4.70	228 13.54	104 31.09	1999	0.71	9.17	0.667	0.755	
— ACUTE RESPIRATORY INFECTION	SEPS. RATE: 15	42 1.12	12 0.32	12 0.18	6 0.17	2 0.10	5 1.49	98	0.39	0.46	0.319	0.476	
— CHRONIC TONSILS & ADENOIDS	SEPS. RATE: 1	453 12.04	142 4.12	40 0.73	2 0.04	1 0.06	0	647	1.03	3.12	0.950	1.117	
— PNEUMONIA	SEPS. RATE: 15	67 1.78	9 0.26	38 0.58	59 1.27	70 4.16	62 18.54	375	0.73	1.65	0.656	0.812	
— ASTHMA	SEPS. RATE: 13	91 2.42	36 1.04	42 0.64	34 0.73	24 1.54	1	255	0.49	1.19	0.432	0.556	

Source: as per Exhibit 3.11
Notes: as per Exhibit 3.11

Exhibit 3.12 continued...

AGE (IN YEARS):	MORBIDITY CAUSE	SEPS. RATE	NUMBER 1 YEAR										TOTAL	S.M.R. LOWER 95% UPPER
			1-14	15-24	25-44	45-64	65-74	75-84	85+					
ALL GASTROINTESTINAL DISEASES														
	SEPS. RATE	19	6.02	2.34	6.25	721	737	437	328	121	2676	0.81	0.761	0.862
	SEPS. RATE	0	3.0	6.4	49	30	1	1	3	1	186	0.90	0.776	1.044
- APPENDICITIS	SEPS. RATE	0.00	1.01	1.05	0.75	0.64	0.06	0.30	0.30	0.30	0.66	0.87	0.92	1.043
- HERNIA	SEPS. RATE	2	0	10	64	82	43	27	3	239	1.76	1.06	0.811	1.043
- CHOLELITHIASIS	SEPS. RATE	0.72	0.21	0.29	0.90	1.76	2.55	2.71	0.90	1.10	0.811	1.06	0.811	1.043
- ENTERITIS/COLITIS	SEPS. RATE	0	0	1	46	297	244	121	61	9	779	1.06	0.908	1.136
	SEPS. RATE	0.00	0.03	1.33	4.54	5.23	7.10	6.13	2.69	3.59	3.51	3.51	0.908	1.136
- ENTERITIS/COLITIS	SEPS. RATE	7	15	25	49	30	32	23	0	169	0.87	0.85	0.414	0.557
	SEPS. RATE	2.51	0.40	0.72	0.73	0.64	1.90	2.31	2.39	0.87	0.85	0.85	0.414	0.557
ALL GENITOURINARY DISEASES														
	SEPS. RATE	13	53	402	1214	626	212	116	37	2674	0.60	0.60	0.026	0.936
	SEPS. RATE	4.67	1.41	11.65	10.56	13.43	12.59	11.66	11.06	12.32	12.20	12.20	0.026	0.936
ALL COMPLIC. PREGNANCIES														
	SEPS. RATE	0	7	2761	5541	3	0	0	0	0	0312	0.99	0.930	1.053
	SEPS. RATE	0.00	0.19	60.02	66.70	0.66	0.00	0.00	0.00	0.00	30.29	39.60	1.053	1.053
- NORMAL DELIVERIES	SEPS. RATE	0	0	292	636	1	0	0	0	0	931	0.43	0.590	0.673
	SEPS. RATE	0.00	0.00	0.46	9.75	0.02	0.00	0.00	0.00	0.00	4.29	4.45	0.590	0.673
- COMPLIC. RELATED TO PREGNANCY	SEPS. RATE	0	0	789	1022	0	0	0	0	0	1703	1.19	1.117	1.266
	SEPS. RATE	0.00	0.05	22.00	15.62	0.00	0.00	0.00	0.00	0.00	0.21	0.48	1.266	1.266
- PROBL. WITH DELIVERY	SEPS. RATE	0	1	1306	3225	1	0	0	0	0	4533	1.09	1.024	1.160
	SEPS. RATE	0.00	0.03	37.65	49.30	0.02	0.00	0.00	0.00	0.00	20.68	21.60	1.160	1.160
ALL DISEASES SKIN/MUSCULOSKELETAL														
	SEPS. RATE	4	94	236	427	637	354	216	47	2015	0.94	0.94	0.603	1.000
	SEPS. RATE	1.44	1.50	6.04	6.53	13.67	21.02	21.72	14.05	9.20	0.96	0.96	1.000	1.000
- ARTHRITIS	SEPS. RATE	1	16	78	101	255	166	100	10	762	1.09	1.09	1.016	1.160
	SEPS. RATE	0.36	0.40	2.17	1.54	5.47	11.04	10.06	5.38	3.51	3.33	3.33	1.160	1.160
CONGENITAL ANOMALIES														
	SEPS. RATE	75	76	34	44	13	3	0	4	257	0.95	0.95	0.830	1.077
	SEPS. RATE	26.93	2.02	0.99	0.67	0.20	0.10	0.00	1.20	1.10	1.22	1.22	1.077	1.077
PERINATAL CONDITIONS														
	SEPS. RATE	300	0	0	0	0	0	0	0	300	0.50	0.50	0.453	0.552
	SEPS. RATE	136.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	1.01	0.552	0.552
ILL DEFINED SYMPTOMS, CONDITIONS														
	SEPS. RATE	69	180	232	372	399	200	104	71	1685	0.82	0.82	0.770	0.872
	SEPS. RATE	24.78	3.99	6.72	5.69	8.56	12.35	10.50	21.23	7.76	7.50	7.50	0.872	0.872
- GENERAL SYMPTOMS	SEPS. RATE	26	78	12	41	42	49	64	27	339	0.74	0.74	0.665	0.823
	SEPS. RATE	9.34	2.07	0.35	0.63	0.90	2.91	6.44	0.07	1.56	1.52	1.52	0.823	0.823
- RESPIRATORY SYMPTOMS	SEPS. RATE	9	7	0	42	190	79	37	5	405	0.90	0.90	0.800	1.062
	SEPS. RATE	3.23	0.19	0.23	0.95	4.25	4.69	3.72	1.49	1.67	1.77	1.77	1.062	1.062
TRAUMA														
	SEPS. RATE	16	146	111	164	174	147	221	102	1161	0.75	0.75	0.704	0.790
	SEPS. RATE	5.75	3.60	3.22	2.51	3.73	6.73	22.22	54.41	5.35	5.11	5.11	0.790	0.790
OTHER INJ., POISONING														
	SEPS. RATE	4	30	63	130	132	67	51	15	508	0.83	0.83	0.739	0.907
	SEPS. RATE	1.44	1.01	1.03	2.11	2.03	3.96	5.13	4.68	2.34	2.29	2.29	0.907	0.907
SUPPLEMENTARY V CODES														
	SEPS. RATE	2610	42	136	554	255	125	87	34	3043	1.11	1.11	1.042	1.101
	SEPS. RATE	937.16	1.12	3.94	6.47	5.47	7.42	8.75	10.16	17.70	10.10	10.10	1.101	1.101
OTHER/UNKNOWN														
	SEPS. RATE	2	0	1	1	0	0	0	0	4	0.09	0.09	0.024	0.230
	SEPS. RATE	0.72	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.230	0.230
TOTAL														
	SEPS. RATE	3410	1707	4704	10700	8337	3400	3252	1347	34804	0.60	0.60	0.826	0.936
	SEPS. RATE	1220.42	47.49	130.70	143.86	110.79	210.82	327.00	408.69	187.95	187.10	187.10	0.826	0.936

MORBIDITY BY AGE GROUP AND DIAGNOSTIC CATEGORY
HAMILTON-WENTWORTH
1986

AGE (IN YEARS):	UNDER 1 YEAR										TOTAL	S.M.R. S.RATE	95% LOWER UPPER
	1-14	15-24	25-44	45-64	65-74	75-84	85+						
MORBIDITY CAUSE													
ALL INFECTIOUS DISEASES	SEPS. RATE:	190 34.93	302 4.97	102 1.47	139 1.06	87 0.95	47 1.52	63 3.97	25 5.60	1043 2.46	1.00 2.50	0.939 1.064	
ALL NEOPLASMS	SEPS. RATE:	7 1.23	73 0.95	126 1.62	535 4.14	1368 15.01	1058 34.25	669 42.18	171 37.46	4007 9.46	0.88 8.68	0.826 6.936	
- LUNG CANCER	SEPS. RATE:	0 0.00	0 0.00	0 0.00	12 0.09	179 1.96	155 5.02	74 4.67	11 2.41	431 1.02	0.64 0.94	0.765 0.922	
-COLORECTAL CANCER	SEPS. RATE:	0 0.00	0 0.00	0 0.00	7 0.05	117 1.26	101 3.27	76 4.79	29 6.35	330 0.78	0.62 0.71	0.737 0.912	
-BREAST CANCER	SEPS. RATE:	0 0.00	0 0.00	0 0.00	49 0.36	171 1.88	82 2.65	46 2.90	14 3.07	362 0.85	0.95 0.60	0.854 1.056	
ALL ENDOCRINE, METAL, MUT., + IMM.	SEPS. RATE:	7 1.23	55 0.72	57 0.62	195 1.51	226 2.48	170 5.50	150 9.46	66 14.46	926 2.19	0.73 2.09	0.683 0.780	
-DIABETES MELLITUS	SEPS. RATE:	0 0.00	32 0.42	39 0.56	92 0.71	133 1.46	98 3.17	71 4.46	15 3.29	480 1.13	0.62 1.08	0.567 0.678	
ALL BLOOD DISEASES + BV.	SEPS. RATE:	6 1.06	57 0.74	83 1.20	256 1.96	556 6.10	304 12.43	230 14.50	92 20.15	1664 3.93	0.96 3.72	0.901 1.021	
ALL MENTAL DISORDERS	SEPS. RATE:	2 0.35	23 0.30	252 3.64	699 5.41	436 4.78	210 6.80	186 11.73	71 15.55	1879 4.44	0.68 4.34	0.639 0.724	
- NEUROSES	SEPS. RATE:	1 0.16	7 0.09	32 0.46	96 0.74	94 1.03	41 1.33	29 1.83	3 0.66	303 0.72	0.58 0.70	0.517 0.650	
- PERSONALITY DISORDERS	SEPS. RATE:	1 0.16	13 0.17	125 1.60	196 1.52	86 0.97	47 1.52	35 2.21	9 1.97	514 1.21	0.67 1.20	0.613 0.732	
ALL M.S. & SENSE ORGANS	SEPS. RATE:	40 0.47	217 2.02	100 1.44	337 2.61	633 6.95	668 21.62	579 36.51	151 33.00	2734 6.46	0.91 6.09	0.054 0.960	
- CATARACTS	SEPS. RATE:	0 0.00	2 0.03	1 0.01	20 0.15	251 2.75	426 13.79	404 25.47	113 24.75	1217 2.61	1.09 2.61	1.024 1.160	
ACUTE MYOCARDIAL INFARCTION	SEPS. RATE:	0 0.00	0 0.00	0 0.00	60 0.46	371 4.07	302 9.78	230 14.50	57 12.49	1020 2.41	1.03 2.22	0.967 1.096	
OTHER ISCHAEMIC HEART	SEPS. RATE:	0 0.00	1 0.01	0 0.00	104 0.81	658 9.41	546 17.67	397 25.03	111 24.32	2017 4.76	0.97 4.39	0.911 1.032	
ALL OTHER HEART DISEASES	SEPS. RATE:	4 0.71	6 0.08	18 0.26	118 0.91	446 4.09	424 13.72	490 31.48	217 47.54	1732 4.09	0.77 3.75	0.723 0.819	
CEREBROVASCULAR DISEASES	SEPS. RATE:	1 0.16	2 0.03	4 0.06	49 0.38	252 2.76	296 9.58	341 21.50	147 32.20	1893 2.58	0.66 2.35	0.808 0.915	
ALL RESPIRATORY DISEASES	SEPS. RATE:	201 49.57	1477 19.21	417 6.02	424 3.28	499 5.46	502 16.25	437 27.55	182 39.87	4219 9.96	0.70 9.89	0.657 0.745	
- ACUTE RESPIRATORY INFECTION	SEPS. RATE:	46 8.11	134 1.74	20 0.29	23 0.18	13 0.14	4 0.13	5 0.32	6 1.31	251 0.59	0.42 0.61	0.370 0.476	
- CHRONIC TONSILS & ADENOIDS	SEPS. RATE:	2 0.35	855 11.12	200 2.69	64 0.65	6 0.07	1 0.03	0 0.00	0 0.00	1140 2.71	0.98 2.63	0.920 1.043	
- PNEUMONIA	SEPS. RATE:	44 7.76	162 2.11	23 0.33	67 0.52	133 1.46	130 4.47	141 8.89	109 23.08	817 1.93	0.75 1.85	0.699 0.804	
- ASTHMA	SEPS. RATE:	49 8.64	217 2.82	46 0.69	54 0.43	63 0.69	47 1.82	16 1.01	2 0.44	498 1.18	0.48 1.19	0.439 0.525	

Source: as per Exhibit 3.11
Notes: as per Exhibit 3.11

Exhibit 3.13 continued...

AGE (IN YEARS):		MORBIDITY CAUSE								S.M.R. 2 RATE		95% LOWER UPPER	
MORBIDITY CAUSE													
		1-14	15-24	25-44	45-64	65-74	75-84	85+	TOTAL				
ALL GASTROINTESTINAL DISEASES													
SEPS. RATE:	60	207	474	1377	1791	922	615	103	5629	0.04	0.769		
	10.50	2.69	6.04	10.67	19.65	29.04	30.78	40.09	13.29	12.01	0.894		
- APPENDICITIS													
SEPS. RATE:	0	75	130	121	50	11	7	1	403	0.06	0.779		
	0.00	0.90	1.00	0.94	0.64	0.36	0.44	0.22	0.95	0.96	0.949		
- HERNIA													
SEPS. RATE:	12	29	76	250	460	177	89	9	1110	0.04	0.901		
	2.12	0.30	1.10	2.00	5.13	3.73	5.61	1.97	2.64	2.54	1.021		
- CHOLELITHIASIS													
SEPS. RATE:	0	1	51	357	305	192	119	14	1119	1.07	1.005		
	0.00	0.01	0.74	2.77	4.22	6.21	7.50	3.07	2.64	2.55	1.130		
- ENTERITIS/COLITIS													
SEPS. RATE:	10	32	45	86	59	44	33	9	310	0.45	0.401		
	1.76	0.42	0.65	0.67	0.65	1.42	2.00	1.97	0.75	0.74	0.504		
ALL GENITOURINARY DISEASES													
SEPS. RATE:	25	126	406	1445	1107	640	421	87	4430	0.90	0.845		
	4.41	1.64	7.02	11.19	13.02	21.36	26.54	19.06	10.46	10.21	0.950		
- PROSTATE HYPERPLASIA													
SEPS. RATE:	0	0	0	4	216	270	160	17	675	1.04	0.965		
	0.00	0.00	0.00	0.03	2.37	8.74	10.59	3.72	1.59	1.45	1.121		
ALL COMPLIC. PREGNANCIES													
SEPS. RATE:	0	7	2761	8542	3	0	0	0	0313	0.99	0.930		
	0.00	0.09	39.05	48.93	0.03	0.00	0.00	0.00	19.63	20.29	1.053		
- NORMAL DELIVERIES													
SEPS. RATE:	0	0	292	630	1	0	0	0	931	0.63	0.590		
	0.00	0.00	4.21	4.94	0.01	0.00	0.00	0.00	2.20	2.27	0.673		
- COMPLIC. RELATED TO PREGNANCY													
SEPS. RATE:	0	2	759	1022	0	0	0	0	1783	1.19	1.117		
	0.00	0.03	10.96	7.92	0.00	0.00	0.00	0.00	4.21	4.34	1.266		
- PROBL. WITH DELIVERY													
SEPS. RATE:	0	1	1306	3226	1	0	0	0	4534	1.09	1.024		
	0.00	0.01	16.05	24.99	0.01	0.00	0.00	0.00	10.71	11.00	1.160		
ALL DISEASES SKIN/MUSCULOSKELETAL													
SEPS. RATE:	13	104	459	1057	1246	593	317	64	3934	0.90	0.920		
	2.29	2.39	6.63	0.19	13.67	19.19	19.99	14.02	9.29	9.02	1.043		
- ARTHRITIS													
SEPS. RATE:	1	29	150	309	460	295	164	22	1446	1.15	1.000		
	0.10	0.30	2.20	2.39	5.13	9.55	10.34	4.62	3.42	3.27	1.224		
CONGENITAL ANOMALIES													
SEPS. RATE:	183	173	54	60	31	4	10	4	527	0.85	0.776		
	32.20	2.25	0.70	0.53	0.34	0.13	0.63	0.00	1.24	1.20	0.929		
PERINATAL CONDITIONS													
SEPS. RATE:	800	0	0	0	0	0	0	0	000	0.52	0.407		
	155.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.15	0.555		
ILL DEFINED SYMPTOMS, CONDITIONS													
SEPS. RATE:	151	304	310	675	862	404	336	110	3152	0.81	0.761		
	26.04	3.95	4.47	5.23	9.46	13.00	21.19	24.10	7.44	7.24	0.662		
- GENERAL SYMPTOMS													
SEPS. RATE:	66	173	25	82	141	95	112	39	733	0.79	0.733		
	11.64	2.25	0.36	0.64	1.55	3.07	7.06	0.54	1.73	1.69	0.052		
- RESPIRATORY SYMPTOMS													
SEPS. RATE:	22	12	11	177	378	132	66	5	803	0.89	0.829		
	3.80	0.16	0.16	1.37	4.15	4.27	4.16	1.10	1.90	1.82	0.954		
TRAUMA													
SEPS. RATE:	20	432	527	609	440	244	283	219	2070	0.80	0.751		
	4.94	5.62	7.61	5.34	4.92	7.90	17.04	47.97	6.78	6.67	0.051		
OTHER INJ., POISONING													
SEPS. RATE:	11	07	112	253	305	157	97	24	1046	0.90	0.845		
	1.94	1.13	1.62	1.96	3.35	5.00	6.12	2.47	2.40	2.40	0.950		
SUPPLEMENTARY V CODES													
SEPS. RATE:	5250	05	102	643	406	270	161	52	7069	1.10	1.033		
	926.09	1.11	2.63	5.14	4.45	8.74	10.15	11.39	16.70	17.05	1.170		
OTHER/UNKNOWN													
SEPS. RATE:	2	0	2	0	0	3	0	0	9	0.12	0.055		
	0.35	0.00	0.03	0.02	0.00	0.10	0.00	0.00	0.02	0.02	0.220		
TOTAL													
SEPS. RATE:	7157	3090	6056	14407	12011	7044	6020	2033	60201	0.04	0.026		
	1202.40	20.69	90.20	113.70	131.70	254.54	379.57	445.35	162.10	139.36	0.936		

Exhibit 3.14

ACUTE CARE SEPARATIONS, HAMILTON-WENTWORTH
BY AGE GROUP AND GENDER (ALL DIAGNOSTIC CHAPTERS)
1986 - 1987

	HAMILTON-WENTWORTH *						HAMILTON						DUNDAS						
	AGE						AGE						AGE						
	00 TO 14	15 TO 44	45 TO 64	65 TO 99		(†) NEWB-ORN	00 TO 14	15 TO 44	45 TO 64	65 TO 99		NEWB-ORN	00 TO 14	15 TO 44	45 TO 64	65 TO 99			
	YEARS	YEARS	YEARS	YEARS	TOTAL		YEARS	YEARS	YEARS	YEARS	TOTAL		YEARS	YEARS	YEARS	YEARS	TOTAL		
	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES		
SEX																			
MALE	3	3	7	3	16	3	2266	2118	4436	5055	5882	19760	1	147	87	237	279	410	1157
FEMALE	1	4	3	1	9	1	2163	1720	11796	4260	6521	26460	1	165	67	650	248	522	1653
TOTAL	4	7	10	4	25	3	4429	3838	16232	9315	12403	46220	2	312	154	887	523	932	2810

	STONEY CREEK						ANCASTER						FLAMBOROUGH						
	AGE						AGE						AGE						
	00 TO 14	15 TO 44	45 TO 64	65 TO 99		NEWB-ORN	00 TO 14	15 TO 44	45 TO 64	65 TO 99		NEWB-ORN	00 TO 14	15 TO 44	45 TO 64	65 TO 99			
	YEARS	YEARS	YEARS	YEARS	TOTAL		YEARS	YEARS	YEARS	YEARS	TOTAL		YEARS	YEARS	YEARS	YEARS	TOTAL		
	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES		
SEX																			
MALE	343	295	527	564	640	2369	132	79	164	202	223	800	142	118	219	213	210	902	
FEMALE	1	324	236	1566	532	587	3246	115	70	496	157	182	1020	130	101	652	199	187	1269
TOTAL	1	667	531	2093	1096	1227	5615	247	149	660	359	405	1820	272	219	871	412	397	2171

	GLANBROOK						OTHER						TOTAL						
	AGE						AGE						AGE						
	00 TO 14	15 TO 44	45 TO 64	65 TO 99		NEWB-ORN	00 TO 14	15 TO 44	45 TO 64	65 TO 99		NEWB-ORN	00 TO 14	15 TO 44	45 TO 64	65 TO 99			
	YEARS	YEARS	YEARS	YEARS	TOTAL		YEARS	YEARS	YEARS	YEARS	TOTAL		YEARS	YEARS	YEARS	YEARS	TOTAL		
	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES	CASES		
SEX																			
MALE	67	52	108	128	102	457	6	2	14	6	12	40	4	3103	2754	5708	6450	7482	25501
FEMALE	61	34	283	111	105	594	6	3	27	8	7	51	2	2964	2232	15474	5518	8112	34302
TOTAL	128	86	391	239	207	1051	12	5	41	14	19	91	6	6067	4986	21182	11968	15594	59803

* specific municipality not known

† age unknown or over 100

Note: where age groups and geographic boundaries coincide, rates can be calculated using information contained in the Demographics section for the purposes of comparison

Source: Ontario Ministry of Health, Information Resources and Services Branch

Exhibit 3.15

ONTARIO HOME CARE PROGRAM
NUMBER OF ADMISSIONS
1985 - 1986

Home Care Program		Primary Diagnostic Category (see below)																							
Central West Region	Type*	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
Brant County	A	6	13	166	63	12	96	3	19	62	12	262	133	57	106	294	139	73	40	156	242	175	44	60	74
	C	0	0	24	9	4	21	3	46	53	3	0	46	37	46	36	9	13	0	12	74	8	6	2	22
Haldimand-Norfolk	A	6	14	86	40	6	82	8	14	49	14	161	93	38	49	49	56	35	8	61	182	137	31	36	235
	C	4	5	104	39	6	23	13	48	136	9	1	118	57	67	82	17	21	6	35	196	75	36	11	58
Halton	A	12	21	371	132	16	114	26	50	159	20	176	179	127	183	148	237	73	21	168	356	333	119	98	194
	C	3	6	74	24	7	27	7	51	189	5	7	118	66	100	56	26	24	0	11	141	34	28	4	34
Hamilton-Wentworth	A	19	47	793	233	28	339	37	154	413	15	64	401	166	289	252	330	202	25	520	772	907	180	603	286
	C	1	11	266	72	14	73	29	165	411	12	4	238	145	192	134	53	74	0	105	351	104	27	34	85
Niagara Region	A	12	46	497	175	27	267	33	78	294	25	210	322	174	397	237	255	135	5	251	717	506	262	128	213
	C	2	3	196	39	12	42	9	88	125	11	0	165	80	76	85	41	24	0	62	87	23	7	7	53
Waterloo Region	A	9	16	166	57	16	156	11	44	132	7	170	163	61	155	63	211	86	5	182	295	254	114	51	123
	C	0	2	215	72	5	52	6	36	131	2	0	101	41	71	75	26	22	0	33	101	24	20	1	40
Wellington, Dufferin, Guelph	A	2	30	331	106	38	135	32	137	145	23	54	326	174	191	257	207	99	18	208	383	360	152	92	225
	C	0	11	91	17	3	33	21	75	153	11	0	143	114	97	94	23	22	0	32	181	26	10	2	43
ONTARIO TOTAL - HOME CARE		413	995	15714	5234	1070	7738	1049	5378	9528	876	4403	12544	6584	8841	9113	9134	4492	679	9232	17780	12606	5002	4008	9127
ONTARIO TOTAL - ACUTE		380	775	8832	3275	674	5519	620	2666	4358	640	4281	7408	4066	5328	5680	7835	3505	661	7558	12151	11167	4172	3729	5990
ONTARIO TOTAL - CHRONIC		33	220	6882	1959	396	2219	429	2712	5170	227	122	5136	2518	3513	3433	1299	987	18	1674	5629	1439	830	279	3137
DIAGNOSTIC CATEGORIES:		(1) After Care	(7) Diseases of Blood and	(13) Ischaemic Heart Disease	(19) Diseases of the Skin and																				
	(2) Infectious and Parasitic Diseases incl. Tuberculosis	(8) Mental Disorders	(14) Cerebrovascular Disease	(20) Diseases of Musculoskeletal System & Conn. Tissue																					
	(3) Neoplasm (malignant/Benign) excluding (4)	(9) Diseases of the Nervous System including Multiple Sclerosis & Parkinson's Disease	(15) Diseases of the Respiratory System	(incl. arthritis)																					
	(4) Malignant Neoplasm of Digest. Organ & Peritoneum	(10) Disorders of Sense Organs excluding (11)	(16) Diseases of Digestive System	(21) Fractures, Injury and Poisoning excluding (22)																					
	(5) Endocrine Nutritional & Metabolic Disease excl.(6)	(11) Cataract	(17) Diseases of Genitourinary System	(22) Fractured Femur																					
	(6) Diabetes Mellitus	(12) Disease of the Circulatory System excl. (13)& (14)	(18) Complication of Pregnancy, Child Birth & Puerperium	(23) Surgical/Medical Complications (Wound Disruption)																					
				(24) Other Diagnostic Categories																					
* A = acute C = chronic																									

Exhibit 3.16

HOME CARE PROGRAM
- HAMILTON-WENTWORTH -
ADMISSIONS BY PRIMARY DIAGNOSTIC CATEGORY
April 1987 - March 1988

<u>Diagnostic Category</u>	<u>Acute Program</u>		<u>Chronic Program</u>		<u>Total Home Care</u>	
	<u>#</u>	<u>%</u>	<u>#</u>	<u>%</u>	<u>#</u>	<u>%</u>
Trauma	1036	19.05	315	7.17	1351	13.74
Musculo-skeletal	480	8.83	663	15.09	1143	11.63
Infections	35	0.64	22	0.50	57	0.58
Cancers	595	10.94	639	14.54	1234	12.55
Endocrine/Metabolic Disorders	274	5.04	196	4.46	470	4.78
Blood Diseases	15	0.28	24	0.55	39	0.40
Behavioural/Psych. Disorders	74	1.36	230	5.23	304	3.09
Nervous System	174	3.20	479	10.90	653	6.64
Eye and Ear	61	1.12	25	0.57	86	0.88
Circulatory Diseases (heart & blood vessel)	486	8.94	909	20.69	1395	14.19
Respiratory	180	3.31	253	5.76	433	4.40
Oral/Gastrointestinal	290	5.33	76	1.73	366	3.72
Renal	62	1.14	143	3.25	205	2.09
Reproductive	180	3.31	12	0.27	192	1.95
Skin	631	11.60	154	3.51	785	7.98
Other	865	15.91	254	5.78	1119	11.38
TOTAL	5438	100.00	4394	100.00	9832	100.00

Compiled from: Ontario Ministry of Health, Ontario Home Care Administration System, run on
Analysis of Admissions by Diagnosis and Condition.

HENDERSON HEALTH SERVICE ORGANIZATION
AGE-SEX DISTRIBUTION TOTAL ENROLMENT
JULY 1987

AGE GROUP	#	%	MALE										FEMALE										#	%	TOTAL #	%
			9	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	9					
0-4	107	2.8									MMMMMM	FFFFF										102	2.6	209	5.4	
5-9	121	3.1									MMMMMM	FFFFF										91	2.4	212	5.5	
10-14	109	2.8									MMMMMM	FFFFF										98	2.5	207	5.3	
15-19	120	3.1									MMMMMM	FFFFF										136	3.5	256	6.6	
20-24	193	5.0									MMMMMMMMMM	FFFFFFFFFFFF										192	5.0	385	9.9	
25-29	257	6.6									MMMMMMMMMM	FFFFFFFFFFFF										173	4.5	430	11.1	
30-34	190	4.9									MMMMMMMMMM	FFFFFFFFFFFF										140	3.6	330	8.5	
35-39	139	3.6									MMMMMMMMMM	FFFFFFFFFFFF										127	3.3	266	6.9	
40-44	109	2.8									MMMMMM	FFFFFFFFFFFF										144	3.7	253	6.5	
45-49	111	2.9									MMMMMM	FFFFF										97	2.5	208	5.4	
50-54	77	2.0									MMM	FFFFF										94	2.4	171	4.4	
55-59	86	2.2									MMM	FFFFF										105	2.7	191	4.9	
60-64	109	2.8									MMMMMM	FFFFFFFFFFFF										126	3.3	235	6.1	
65-69	89	2.3									MMMMMM	FFFFF										91	2.4	180	4.7	
70-74	57	1.5									MM	FFFF										77	2.0	134	3.5	
75-79	40	1.0									MM	FF										50	1.3	90	2.3	
80-84	20	0.5									M	FF										36	0.9	56	1.4	
85+	14	0.4									M	FF										43	1.1	57	1.5	
TOTAL	1948	50.3																				49.7	1922	3870	100.0	

Source: Henderson General Hospital, Department of Family Medicine, McMaster University Teaching Health Unit (with the help of Drs. Stephenson and MacDonald; Carol Profetto and Kim Clark).

**HENDERSON HEALTH SERVICE ORGANIZATION
20 MOST COMMON DIAGNOSES BY NUMBER OF PATIENTS
1987**

Rank	# Patients	Diagnosis
1	599	Advice & health instruction
2	548	Acute URI (including pharyngitis)
3	503	Medical examination
4	372	Hypertension (uncomplicated)
5	369	Anxiety
6	344	Immunization
7	256	Sprain & strain all other sites nec
8	227	Abdominal pain
9	211	Back pain without radiation
10	202	Pain in joint
11	180	Osteoarthritis (osteoarthritis) & allied conditions
12	178	Pain in limb
13	168	Transient situational disturbance, acute stress reaction, adjustment reaction
14	168	Laceration, open wound, trauma, amputation
15	158	Acute otitis media
16	154	Cough
17	147	Fatigue, malaise, tiredness
18	143	Bronchitis & bronchiolitis, acute
19	138	Obesity
20	136	Eczema & allergic dermatitis

Note: a patient is counted as often as s/he has a distinct diagnosis

**HENDERSON HEALTH SERVICE ORGANIZATION
20 MOST COMMON DIAGNOSES BY NUMBER OF ENCOUNTERS
1987**

Exhibit 3.19

Rank	# Encounters	Diagnosis
1	1086	Hypertension (uncomplicated)
2	803	Advice & health instruction
3	790	Medical examination
4	748	Acute URI (including pharyngitis)
5	686	Anxiety
6	639	Heart failure
7	587	Diabetes
8	587	Osteoarthritis (osteoarthritis) & allied conditions
9	539	Other cerebrovascular disease
10	505	Senile dementia
11	422	Prenatal care
12	393	Immunization
13	384	Sprain & strain all other sites nec
14	370	Back pain without radiation
15	359	Chronic ischaemic/angina
16	359	Abdominal pain
17	343	Transient situational disturbance, acute stress reaction, adjustment reaction
18	320	Obesity
19	311	Depression
20	297	Acute otitis media

Note: a patient is counted as often as s/he visits for service

Source: Henderson General Hospital, Department of Family Medicine, McMaster University Teaching Health Unit (with the help of Drs. Stephenson and MacDonald; Carol Profetto and Kim Clark).

Exhibit 3.20

**NEW CANCER CASES
REGISTERED BY SITE OF DISEASE AND TREATMENT CENTRE, 1986**

SITE OF DISEASE (ICD9)	HAMILTON		ONTARIO	
	#	%	#	%
*140 Lip	6	0.2	79	0.4
*141 Tongue	22	0.7	180	0.9
142-145 Rest of Mouth	44	1.3	322	1.6
146-149 Pharynx and Tonsil	35	1.1	305	1.5
*150 Esophagus	42	1.3	233	1.1
152,153 Intestine except Rectum	117	3.6	795	3.9
*154 Rectum and Anal Canal	120	3.7	754	3.7
155-159 Other Digestive System	51	1.6	325	1.6
*160 Nose, Middle Ear, Accessory Sinuses	10	0.3	60	0.3
*161 Larynx	48	1.5	448	2.2
*162 Lung, Bronchus, Trachea	481	14.7	3237	16.0
163-165 Other Respiratory	9	0.3	60	0.3
*170 Bone	7	0.2	66	0.3
*172 Malignant Melanoma	104	3.2	583	2.9
*173 Other Cancer of Skin	306	9.4	1977	9.7
174,175 Breast	540	16.5	3567	17.6
*180 Cervix Uteri	68	2.1	467	2.3
179,181,182 Other Uterus	129	4.0	621	3.1
*183 Ovary Tubes and Ligament	82	2.5	436	2.1
*184 Other Female Genital Organs	20	0.6	113	0.6
*185 Prostate	151	4.6	971	4.8
*186 Testis	23	0.7	209	1.0
*187 Other Male Genital Organs	1	0.0	18	0.1
*188 Bladder	97	3.0	421	2.1
*189 Kidney and Other Urinary	40	1.2	268	1.3
191,192 Brain and Nervous System	79	2.4	477	2.4
*193 Thyroid Gland	10	0.3	91	0.4
*200 Lymphosarcoma, Reticular Cell Sarcoma	43	1.3	452	2.2
*201 Hodgkin's Disease	40	1.2	277	1.4
*202 Other Lymphomas	97	3.0	390	1.9
204-208 Leukemia	87	2.7	475	2.3
RESIDUAL Other Sites	320	9.8	1360	6.7
TOTAL	3262	100.0	20295	100.0

* Provisional; transitional period

Source: Ontario Cancer Treatment and Research Foundation. 1988.
Cancer in Ontario 1987: biological response modifiers.
 (Table IX, p.195)

Preventive Primary Health Care

- sexually transmitted diseases
- live births
- abortions, stillbirths & infant deaths



Exhibit 4.1

**SEXUALLY TRANSMITTED DISEASES
POSITIVE TEST RESULTS FOR 1987,
HAMILTON-WENTWORTH***

ANNUAL REPORT JANUARY - DECEMBER

M=Male F=Female

AGE	PPNG			GON.			SYPH.			CHLAM.			HERPES			AIDS			POSITIVE HIV SEROLOGY TEST		
	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.	M	F	TOT.
0-19	0	0	0	57	132	189	1	0	1	16	210	226	3	7	10	0	0	0	3	0	3
20-24	0	0	0	105	129	234	1	4	5	53	251	304	11	13	24	1	0	1	7	1	8
25-39	0	0	0	72	55	127	11	5	16	23	101	124	10	22	32	3	0	3	21	0	21
40 +	0	0	0	18	8	26	14	3	17	6	5	11	3	6	9	1	0	1	3	0	3
U/K	0	0	0	19	41	60	0	0	0	3	42	45	1	6	7	0	0	0	3	0	3
TOTAL	0	0	0	271	365	636	27	12	39	101	609	710	28	54	82	5	0	5	37	1	38

* As reported from all sources (area hospitals, labs, physicians, STD and birth control clinics)

Source: Regional Municipality of Hamilton-Wentworth, Department of Health Services

Contact: Arlene Stacie

Exhibit 4.2

LIVE BIRTHS, WENTWORTH COUNTY
TENTATIVE MINISTRY DATA
1986

mother's age	Marital Status		Birth Weight (grams)			Gestation Period (weeks)			TOTAL NO.
	not married NO.	other NO.	under 1500 NO.	1500-2500 NO.	2501+ NO.	20-27 NO.	28-34 NO.	35+ NO.	
13	1	0	0	0	1	0	0	1	1
14	2	0	0	0	2	0	0	2	2
15	8	0	0	0	8	0	0	8	8
16	31	4	0	1	34	0	1	34	35
17	48	6	1	6	47	0	1	53	54
18	69	26	0	7	88	0	0	95	95
19	57	57	1	10	103	0	4	110	114
20-24	296	1149	13	80	1352	6	30	1409	1445
25-29	128	2286	17	110	2287	8	34	2372	2414
30-34	57	1438	6	65	1424	3	13	1479	1495
35-39	12	377	8	26	355	3	10	376	389
40-44	2	31	3	0	30	1	1	31	33
45 +	0	1	0	0	1	0	0	1	1
1986 TOTAL	711	5375	49	305	5732	21	94	5971	6086
1985 TOTAL	690	5399	63	286	5739	30	133	5926	6089
1986 TOTAL	630	5299	52	322	5555	24	138	5767	5929

Source: Ontario Ministry of Health, Public Health Branch

INFANT MORTALITY FROM SELECTED CAUSES, ONTARIO, 1984

ONTARIO AND LOCAL HEALTH AGENCIES BY REGION	LIVE BIRTHS	TOTAL INFANT DEATHS	CONGENITAL ANOMALIES (748-759) (11)	RESPIRAT. CONDITIONS (768-770)	SUDDEN INFANT DEATHS (7980)	GROWTH DISORDERS (764-766)	ACCIDENTS (8000-809, 8877-929)	INFECTIOUS & PARASIT. DISEASES (001-139, 771)	PNEUMONIA & INFLUENZA (400-407)	BIRTH TRAUMA (767)	OTHER CAUSES
			NO. RATE	NO. RATE	NO. RATE	NO. RATE	NO. RATE	NO. RATE	NO. RATE	NO. RATE	NO. RATE
ONTARIO TOTAL	131,049	1,006	299 2.3	207 1.6	175 1.4	88 0.7	22 0.2	25 0.2	9 0.1	13 0.1	201 1.5
SOUTHWEST	19,203	150	42 2.2	30 1.6	22 1.1	14 0.7	4 0.2	4 0.2	2 0.1	1 0.1	31 1.6
BRUCE	1,076	8	4 3.7	2 1.9	1 0.9						1 0.9
ELGIN-ST. THOMAS	990	6		1 1.0	2 2.0						3 3.0
GREY-OWEN SOUND	1,024	4		1 1.0	1 1.0	1 1.0	1 1.0				1 1.0
HURON	831	8		3 3.6	2 2.4			1 1.2			2 2.4
KENT	1,584	13	4 2.5	2 1.3	3 1.9				2 1.3		2 1.3
LAHSTON	2,004	18	7 3.5	4 2.0	2 1.0	2 1.0					3 1.5
MIDDLESEX-LONDON	4,912	47	12 2.5	11 2.2	5 1.0	3 0.6	1 0.2	1 0.2		1 0.2	13 2.7
OXFORD	1,273	13	3 2.4	3 2.4	2 1.6	2 1.6	1 0.6				2 1.6
PERTH	998	4		1 1.0		1 1.0		1 1.0			1 1.0
WINDSOR-ESSEX	4,511	29	12 2.7	2 0.4	4 0.9	5 1.1	1 0.2	1 0.2			4 0.9
CENTRAL WEST	24,912	171	50 2.0	38 1.5	24 1.0	17 0.7	4 0.2	1 0.0	2 0.1	2 0.1	33 1.3
BRANT	1,629	13	4 2.5	1 0.6	2 1.2				1 0.6		5 3.1
HALDIMAND-NORFOLK	1,379	14	4 2.9	2 1.5	4 2.9	2 1.5	1 0.7				1 0.7
HALTON	3,562	13	4 1.1	2 0.6		2 0.6					5 1.4
HAM.-WENTWORTH	5,929	42	13 2.2	9 1.5	5 0.8	7 1.2		1 0.2			7 1.2
NIAGARA	4,732	31	5 1.1	11 2.3	4 0.8	2 0.4	1 0.2		1 0.2		7 1.5
WATERLOO	5,017	40	16 3.2	7 1.4	9 1.8	1 0.2	2 0.4			2 0.4	3 0.6
WELL.-DUFF.-G.	2,644	18	4 1.5	6 2.3		3 1.1					5 1.9
CENTRAL EAST	56,410	410	129 2.3	81 1.4	60 1.1	40 0.7	4 0.1	10 0.2	2 0.0	5 0.1	79 1.4
DURHAM	5,175	31	12 2.3	6 1.2	5 1.0	1 0.2					4 0.8
HAL., K., P.R.	1,691	16	3 1.8	3 1.8	3 1.8	3 1.8	1 0.2	1 0.2	1 0.2		4 2.4
PEEL	9,664	54	20 2.1	10 1.0	8 0.8	6 0.6				1 0.1	9 0.9
PETERBOROUGH	1,401	7	1 0.7	3 2.1	1 0.7	2 1.4					
SIMCOE	3,259	29	8 2.5	1 0.3	8 2.5	2 0.6					7 2.1
METRO TORONTO	29,930	244	74 2.5	53 1.8	32 1.1	24 0.8	3 0.1	4 0.1	1 0.0	4 0.1	49 1.7
EAST YORK	1,402	11	3 2.1	4 2.9	1 0.7	1 0.7					2 1.4
ETOBICOKE	3,943	25	5 1.3	4 1.0	5 1.3	1 0.3		1 0.3		1 0.3	8 2.0
NORTH YORK	7,347	62	21 2.9	9 1.2	7 1.0	8 1.1		1 0.1		3 0.4	13 1.8
SCARBOROUGH	6,971	51	14 2.0	13 1.9	6 0.9	7 1.0		2 0.3	1 0.1		8 1.1
TORONTO	8,268	80	27 3.3	18 2.2	10 1.2	7 0.8	3 0.4				15 1.8
YORK BOROUGH	1,999	15	4 2.0	5 2.5	3 1.5						3 1.5
YORK REGIONAL	5,270	29	11 2.1	5 0.9	3 0.6	2 0.4		2 0.4			6 1.1

Source: Ontario Ministry of Health, Community Health Programs Branch, Statistical Report on Community Health, Ontario, 1984. (Table 10.1)

Contact: Gia Eisenstein (Executive Director, Community Health Programs Branch)

STILLBIRTHS
HAMILTON-WENTWORTH, 1987

AGE	MARITAL STATUS		WEIGHT		GESTATION PERIOD		TOTAL			
	NOT MARRIED	MARRIED	OTHERS	UNK.	120-27	28-34	35 +	TOTAL	NO.	NO.
16	1	0	1	0	1	1	0	1	1	1
19	0	2	2	0	0	0	2	2	2	2
20-24	1	8	9	3	3	3	3	9	9	9
25-29	1	7	8	4	2	2	2	8	8	8
30-34	0	10	10	3	4	3	3	10	10	10
35-39	0	2	2	1	0	1	1	2	2	2
40-44	0	1	1	0	1	1	0	1	1	1
TOTAL	3	30	33	11	11	11	11	33	33	33

Exhibit 4.5

INFANT DEATHS, BY AGE AND SEX
HAMILTON-WENTWORTH, 1986

AGE	SEX		TOTAL	
	MALE	FEMALE	NO.	NO.
<7 DAYS	12.00	8.00	20	20
7-27 DAYS	1.00	3.00	4	4
28 DAYS-1 YEAR	7.00	13.00	20	20
TOTAL	20.00	24.00	44	44

THERAPEUTIC ABORTIONS: AGE BY MARITAL STATUS
HAMILTON-WENTWORTH, 1987

Marital Status										ROW TOTAL
AGE	ISINGLE	MARRIED	SEPARATE	DIVORCED	WIDOWED	COMMON L		ROW TOTAL		
	I	1I	2I	3I	4I	5I	6I			
14 YEARS	14	0	I	I	I	I	I	8		
	I	I	I	I	I	I	I	.6		
15 YEARS	15	16	I	I	I	I	I	16		
	I	I	I	I	I	I	I	1.2		
16 YEARS	16	45	I	I	I	I	I	46		
	I	I	I	I	I	I	I	3.5		
17 YEARS	17	74	I	I	I	I	I	75		
	I	I	I	I	I	I	I	5.6		
18 YEARS	18	76	I	1	I	I	4	83		
	I	I	I	I	I	I	I	6.2		
19 YEARS	19	98	I	I	I	I	4	103		
	I	I	I	I	I	I	I	7.7		
20-24 YEARS	20	357	I	64	I	25	I	5	465	
	I	I	I	I	I	I	I	I	34.9	
25-29 YEARS	21	146	I	91	I	36	I	11	295	
	I	I	I	I	I	I	I	I	22.1	
30-34 YEARS	22	38	I	76	I	24	I	15	158	
	I	I	I	I	I	I	I	I	11.9	
35-39 YEARS	23	6	I	43	I	2	I	11	65	
	I	I	I	I	I	I	I	I	4.9	
40-44 YEARS	24	2	I	10	I	2	I	1	15	
	I	I	I	I	I	I	I	I	1.1	
45-49 YEARS	25	I	I	3	I	I	I	I	3	
	I	I	I	I	I	I	I	I	.2	
COLUMN TOTAL	868	290	90	42	6	36	2.7	2.7	1332	
	45.2	21.8	6.8	3.2	.5				100.0	

Source: Ontario Ministry of Health, Public Health Branch
(for all tables on this page)

Exhibit 4.7

THERAPEUTIC ABORTIONS: GESTATION PERIOD BY AGE
HAMILTON-WENTWORTH, 1987

Gestation Period (weeks)	A g e										ROW TOTAL	
	10-14 YEARS	15-19 YEARS	20-24 YEARS	25-29 YEARS	30-34 YEARS	35-39 YEARS	40-44 YEARS	45-49 YEARS				
	I	II	2I	3I	4I	5I	6I	7I	8I			
	5	I	I	I	1 I	1 I	2 I	I	I	I		4
		I	I	I	I	I	I	I	I	I		.3
	6	I	I	4 I	5 I	6 I	5 I	I	1 I	I		21
		I	I	I	I	I	I	I	I	I		1.4
	7	I	I	11 I	25 I	19 I	6 I	7 I	I	I		68
		I	I	I	I	I	I	I	I	I		5.1
	8	I	I	40 I	59 I	41 I	26 I	13 I	5 I	I		184
	I	I	I	I	I	I	I	I	I	13.8		
9	I	I	51 I	93 I	58 I	34 I	17 I	4 I	2 I	259		
	I	I	I	I	I	I	I	I	I	19.4		
10	I	I	63 I	86 I	58 I	29 I	13 I	1 I	1 I	251		
	I	I	I	I	I	I	I	I	I	18.8		
11	I	2 I	38 I	61 I	47 I	20 I	7 I	2 I	I	177		
	I	I	I	I	I	I	I	I	I	13.3		
12	I	1 I	42 I	46 I	25 I	16 I	4 I	1 I	I	135		
	I	I	I	I	I	I	I	I	I	10.1		
13	I	1 I	21 I	30 I	12 I	6 I	3 I	1 I	I	74		
	I	I	I	I	I	I	I	I	I	5.6		
14	I	1 I	22 I	21 I	10 I	7 I	1 I	I	I	62		
	I	I	I	I	I	I	I	I	I	4.7		
15	I	I	8 I	8 I	5 I	3 I	I	I	I	24		
	I	I	I	I	I	I	I	I	I	1.8		
16	I	I	2 I	4 I	6 I	1 I	I	I	I	13		
	I	I	I	I	I	I	I	I	I	1.0		
17	I	2 I	9 I	13 I	2 I	I	I	I	I	26		
	I	I	I	I	I	I	I	I	I	2.0		
18	I	I	8 I	6 I	3 I	2 I	I	I	I	19		
	I	I	I	I	I	I	I	I	I	1.4		
19	I	1 I	3 I	6 I	1 I	1 I	I	I	I	12		
	I	I	I	I	I	I	I	I	I	.9		
20	I	I	1 I	1 I	I	I	I	I	I	2		
	I	I	I	I	I	I	I	I	I	.2		
21	I	I	I	I	1 I	I	I	I	I	1		
	I	I	I	I	I	I	I	I	I	.1		
COLUMN TOTAL	8 .6	323 24.2	465 34.9	295 22.1	158 11.9	65 4.9	15 1.1	3 .2	1332 100.0			

Source: Ontario Ministry of Health, Public Health Branch

Contact: Jane Underwood, Director of Nursing, Hamilton-Wentworth Dep't
of Health ServicesDr. R. Khazen, Chief, Family Health, Public Health Resource Service,
Ministry of Health

Community Health Protection

- immunization
- dental health
- road trauma
- occupational injury

Chapter 5

HAMILTON-WENTWORTH SCHOOL IMMUNIZATION STATUS SUMMARY 1987-88

(Exhibit 5.1)

School Populations	Elementary	51,814
(includes JK - Gr. 13)	Secondary	26,426
	TOTAL	78,778

1) PERCENT OF TOTAL SCHOOL ENROLLMENT ASSESSED BY HEALTH DEPARTMENT

Elementary Pupils:

<u>Birth Year</u>	<u>Grade</u>	<u>No. of Pupils on S.H.S.</u>	<u>No. of Pupils with Complete Immunization</u>	<u>Percent of Pupils on S.H.S. with Complete Immunization</u>
83	JK	4,227	3,859	91.3
82	SK	5,400	4,999	92.6
81	1	5,504	4,808	87.4
80	2	5,361	4,326	80.7
79	3	5,257	4,622	87.9
78	4	5,197	4,671	89.9
77	5	5,104	4,597	90.1
76	6	5,266	4,703	89.3
75	7	5,162	4,480	86.8
74	8	5,230	4,412	84.4
		51,708	45,477	

- have assessed records for 99.8% of elementary pupils in region
- 87.9% of elementary pupils assessed have complete immunization
- have records of complete immunization for 87.8% of all elementary pupils in region.

Secondary Pupils:

<u>Birth Year</u>	<u>Grade</u>	<u>No. of Pupils on S.H.S.</u>	<u>No. of Pupils with Complete Immunization</u>	<u>Percent of Pupils on S.H.S. with Complete Immunization</u>
73	9	5,231	4,290	82.0
72	10	5,445	4,222	77.5
71	11	5,058	3,110	61.5
70	12	1,916	790	41.2
69	13	964	388	40.2
		18,614	12,800	

- have assessed records for 70.4% of secondary pupils in region
- 68.8% of secondary pupils assessed have complete immunization
- have records of complete immunization for 48.4% of all secondary pupils in region.

Elementary and Secondary Pupils:

- have assessed records for 70,322 or 89.3% of elementary and secondary pupils in region
- 58,277 or 82.9% of pupils assessed have complete immunization
- have records of complete immunization for 74% of total school population in region.

II) NUMBER OF PUPILS FULLY IMMUNIZED BY DISEASE

Elementary Pupils:

<u>Birth Year</u>	<u>Grade</u>	<u>Diphtheria Tetanus</u>	<u>Polio</u>	<u>Measles</u>	<u>Rubella</u>	<u>Mumps</u>
83	JK	3962	3966	4005	3992	3989
82	SK	5160	5163	5135	5123	5124
81	1	4977	4980	5237	5220	5227
80	2	4426	4438	5152	5143	5142
79	3	4736	4749	5062	5051	5051
78	4	4784	4792	5011	4996	4992
77	5	4737	4745	4880	4864	4863
76	6	4858	4858	5035	5031	5024
75	7	4721	4733	4756	4738	4731
74	8	4765	4784	4724	4699	4657
		<u>47126</u>	<u>47208</u>	<u>48997</u>	<u>48857</u>	<u>48800</u>

Secondary Pupils:

73	9	4696	4714	4741	4713	4669
72	10	4815	4843	4820	4777	4671
71	11	4130	4187	3866	3774	3668
70	12	1414	1456	1230	1153	1088
69	13	808	841	540	503	478
		<u>15863</u>	<u>16041</u>	<u>15197</u>	<u>14920</u>	<u>14574</u>

Percent of Elementary Pupils Immunized by Disease:

Diphtheria Tetanus]	90.95%	
Polio		91.1%	
Measles		94.6%	(total elementary population = 51,814)
Rubella		94.3%	
Mumps		94.2%	

Percent of Secondary Pupils Fully Immunized by Disease:

Diphtheria Tetanus]	60%	
Polio		60.7%	
Measles		57.5%	(total secondary population = 26,426)
Rubella		56.5%	
Mumps		55.2%	

Percent of Elementary & Secondary Pupils Fully Immunized by Disease:

Diphtheria Tetanus]	79.9%	
Polio		80.3%	
Measles		81.5%	(total school population = 78,778)
Rubella		80.9%	
Mumps		80.4%	

III) NUMBER OF PUPILS WITH EXEMPTIONS

Birth Year	Grade	Medical	Religious
83	JK	-	5
82	SK	3	7
81	1	2	14
80	2	3	12
79	3	2	3
78	4	4	5
77	5	3	11
76	6	1	7
75	7	2	5
74	8	3	8
73	9	5	7
72	10	7	1
71	11	2	6
70	12	2	-
69	13	-	1
		39	82

Percent of Pupils with Exemptions:

Medical	.05%
Religious/Conscience	.1%

IV) SUSPENSIONS & EXCLUSIONS

Total number of orders written 0

Source: Regional Municipality of Hamilton-Wentworth,
Department of Health Services, Nursing Division
(C.A.S.H. database) [for all school immunization
data]

Contact: Jane Underwood, Director of Nursing, D.H.S.

Exhibit 5.2

AVERAGE DENTAL DECAY, MISSING AND FILLED TEETH PER INDIVIDUAL IN HAMILTON-WENTWORTH AND ONTARIO, AGES 5 TO 13, 1982 AND 1985

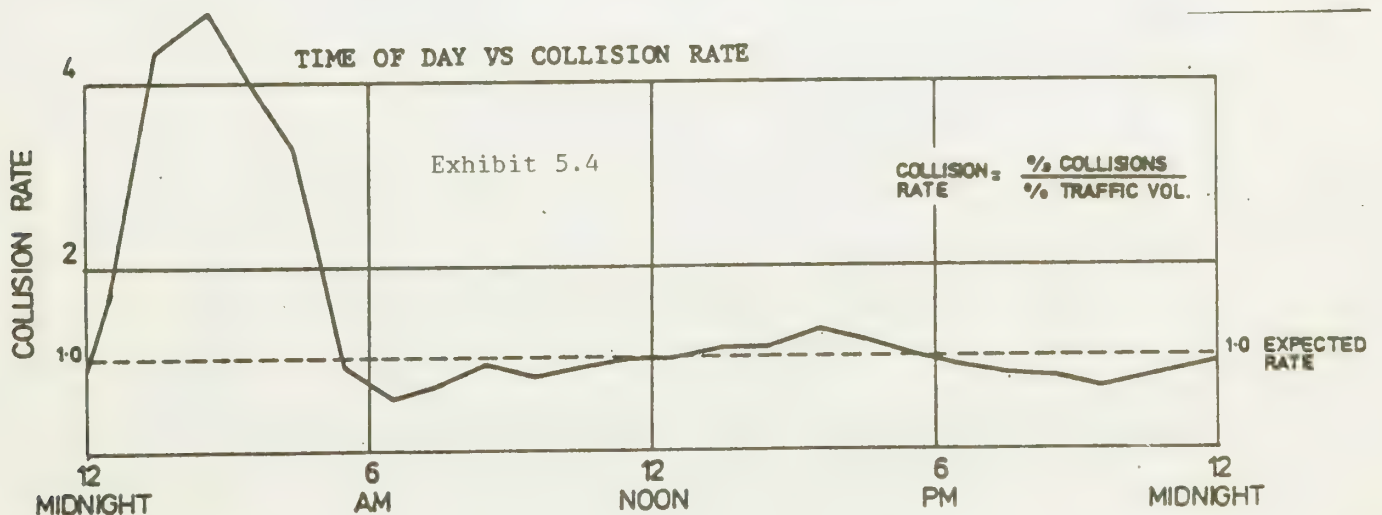
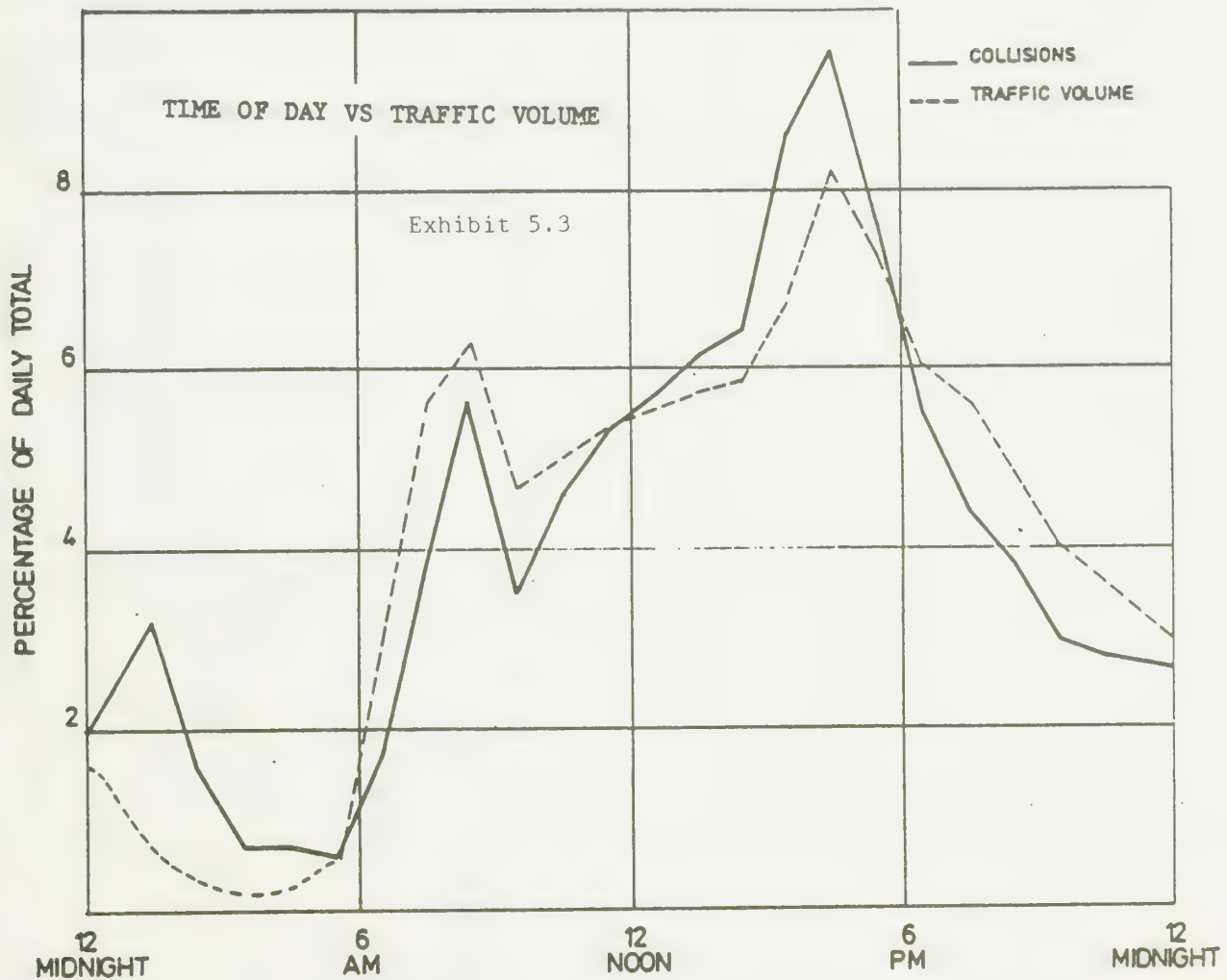
AGE (years)	Hamilton-Wentworth		Ontario	
	1982	1985	1982	1985
5	1.77	1.37	1.81	1.20
7	2.95	2.70	3.23	2.37
9	3.93	3.50	4.51	3.19
11	2.19	1.46	2.11	1.57
13	2.26	2.41	3.24	2.51

Source: Hamilton-Wentworth Regional Health Unit, 1985
Dental Health Indices 1985/86 Survey
Ministry of Health Public Health Branch

Editor's notes: Figures based on "random" sample of schools in
the municipality (some socio-economic bias is
to be expected).

Note that the city's new Director of Dental
Services is Gary Jackson.

ROAD TRAUMA STATISTICS
- HAMILTON-WENTWORTH -
1985



Note: In the same report (cited below) it is stated that 42% of the collisions which occurred during the period from 10:00 pm to 3:00 am Wednesdays to Sundays, involved alcohol (p.45).

Source: City of Hamilton Traffic Department. 1986. 1985 Hamilton-Wentworth Collision Report.

**ROAD TRAUMA STATISTICS
- HAMILTON-WENTWORTH -
1985**

COLLISIONS BY MUNICIPALITY

Municipality	Fatal	Non-fatal Injury	Property Damage Only	All Collisions	Collision Rate per 1000 Pop.
Ancaster	1	79	116	196	11.8
Dundas	1	99	152	252	12.5
Flamborough	3	111	185	299	11.7
Glanbrook	1	41	62	104	11.0
City of Hamilton	14	2541	3315	5870	19.1
Stoney Creek	1	282	342	625	14.9
TOTAL for H-W Regional Municipality	21	3153	4172	7346	17.4

Note: - collisions reported to the Hamilton-Wentworth Regional Police only; areas patrolled by the Provincial Police (e.g. Kings Highways) are not included

- 1985 Regional Assessment Office population figures used

Exhibit 5.7

INJURY STATUS BY CATEGORY

Category	Persons Involved	Injured or Killed	Injuries/Involved	Type of Injury		
				Fatal	Major	Minor
Driver	12,769	2,463	0.19	13	101	814
Bicyclist	243	239	0.98	2	17	99
Rider/Passenger	7,983	1,417	0.18	8	65	458
Pedestrian	410	410	1.00	3	65	205
TOTALS	21,405	4,529	0.21	26	248	1,576

Note: Collision types:

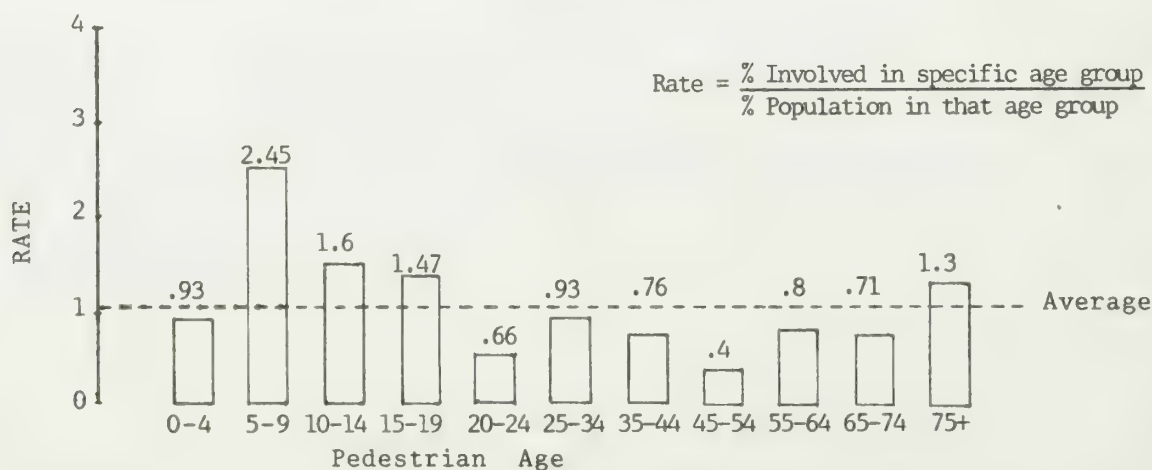
MINIMAL: Person did not go to a hospital for medical treatment upon leaving the scene of the accident

MINOR: Person did go to hospital for medical treatment but was released without being admitted

MAJOR: Person admitted to hospital for treatment of injuries received in the accident

Source: City of Hamilton Traffic Department, 1985 Hamilton-Wentworth Collision Report. Tables 7-1 (p.103) and 2-1 (p.27) respectively.

PEDESTRIAN INVOLVEMENT IN VEHICULAR COLLISIONS



Source: City of Hamilton Traffic Department, 1985 Hamilton-Wentworth Collision Report

Exhibit 5.8

WORKER'S COMPENSATION BOARD OF ONTARIO COMPENSATION CLAIMS INITIALLY SETTLED IN 1987:
NUMBER OF FATAL & NON-FATAL CLAIMS AND WORKING DAYS LOST BY OCCUPATION FOR ALL INDUSTRIES,
HAMILTON*

OCCUPATION	NUMBER OF CLAIMS			DAYS OF TEMPORARY	
	FATALS	NON-FATALS	TOTAL	TOTAL COMPENSATION	AVERAGE
00 OCCUPATION NOT STATED	0	815	815	29,573	37
11 MANAGERIAL, ADMINISTRATIVE AND RELATED OCCUPATIONS	0	11	11	184	17
21 OCCUPATIONS IN NATURAL SCIENCES, ENGINEERING AND M	0	55	55	999	18
23 OCCUPATIONS IN SOCIAL SCIENCES AND RELATED FIELDS	0	23	23	229	10
25 OCCUPATIONS IN RELIGION	0	1	1	3	3
27 TEACHING AND RELATED OCCUPATIONS	0	84	84	1,416	17
31 OCCUPATIONS IN MEDICINE AND HEALTH	0	427	427	13,514	32
33 ARTISTIC, LITERARY, RECREATIONAL AND RELATED OCCUP	0	17	17	590	35
41 CLERICAL AND RELATED OCCUPATIONS	0	411	411	9,889	24
51 SALES OCCUPATIONS	0	212	212	5,391	26
61 SERVICE OCCUPATIONS	0	956	956	33,763	36
71 FARMING, HORTICULTURAL AND ANIMAL HUSBANDRY OCCUPA	0	33	33	1,444	44
75 FORESTRY AND LOGGING OCCUPATIONS	0	2	2	202	101
77 MINING AND QUARRYING INCLUDING OIL AND GAS FIELD O	0	9	9	1,093	121
81 PROCESSING OCCUPATIONS	0	658	658	30,865	47
83 MACHINING AND RELATED OCCUPATIONS	0	838	838	25,847	31
85 PRODUCT FABRICATING, ASSEMBLING AND REPAIRING OCCU	1	1,128	1,129	41,140	37
87 CONSTRUCTION TRADES OCCUPATIONS	2	597	599	25,276	42
91 TRANSPORT EQUIPMENT OPERATING OCCUPATIONS	0	561	561	22,673	41
93 MATERIALS HANDLING AND RELATED OCCUPATIONS, N.E.C.	0	553	553	21,997	40
95 OTHER CRAFTS AND EQUIPMENT OPERATING OCCUPATIONS	0	97	97	2,352	25
99 OCCUPATIONS, NOT ELSEWHERE CLASSIFIED	0	647	647	25,008	39
TOTAL	3	8,135	8,138	293,446	36

* Refer to explanatory note on the following page

Source: Worker's Compensation Board of Ontario (Toronto), Report S57102K2

1. Claim status is "compensation"
2. Claim was "initially settled" in 19XX

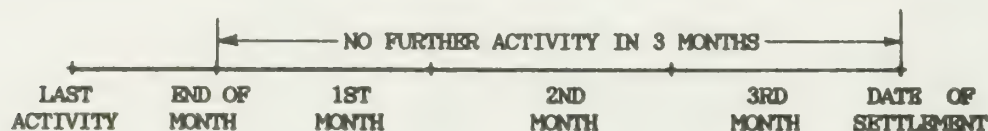
These are claims involving "disabling" injuries/illnesses resulting in death, permanent disability or temporary disability. If the claim is allowed, the Board compensates the worker or his/her survivors according to the Ontario Workers' Compensation Act.

Compensation claims include those instances where the LATEST type of disability is reported as:

1. Fatal
2. Permanent Disability
3. Temporary Total Disability
4. Temporary Partial Disability
5. Temporary Partial Difference
6. Rehabilitation Only

This means that the claim was settled for the FIRST time in 19XX. As such, this criterion EXCLUDES those claims which had been settled for the first time in some PREVIOUS year but since has been re-opened and then resettled in 19XX. Re-opening of a claim is mainly due to recurrence of a disability after having returned to work, increase in the degree of permanent disability, death, etc. It should be noted that a new claim is set up for a new injury.

Claims are considered settled when there is no further activity anticipated. Technically, this means that there has been no action taken on the claim during the three months following the month of the last activity. Usually, the last activity is the last compensation payment in the case of a temporary disability, or the setting up of a monthly pension and/or lump sum payment in the case of a fatality or permanent disability. The following diagram illustrates this rule:



Please note that the figures are tabulated on the basis of "*Initially Settled Compensation Claims*"; an explanatory note is enclosed to clarify the definition. Essentially, this means that re-opened claims and "Health-care-only" (no-lost-time) claims are excluded. Furthermore, lost time are accumulated only up to initial settlement. Days lost attributable to subsequent resettlements are not reflected in these tables. It should also be noted that time lost is given as the number of working days on Temporary Total compensation. Time lost as a result of death and/or permanent disability are not imputed.

Personal and Social Development

- mental health
- lifestyle
- substance abuse

Chapter 6

Exhibit 6.1

ADMISSIONS TO PSYCHIATRIC UNITS BY HOSPITAL, AGE AND SEX

 Hamilton-Ventworth Region
 April 1 1986 - March 31 1987

Age	Total No. (all units)	Chedoke-McMaster Hospitals			Hamilton Civic General Hospital			Hamilton Civic Henderson Hospital			St. Joseph's Hospital			Hamilton Psychiatric Hospital		
		# Male	# Female	% of unit Total	# Male	# Female	% of unit Total	# Male	# Female	% of unit Total	# Male	# Female	% of unit Total	# Male	# Female	% of unit Total
0-14	10	0	1	0.29	0	0	0.00	0	0	0.00	3	6	2.01	0	0	0.00
15-24	406	35	34	20.12	16	7	13.37	7	5	4.94	44	67	24.78	127	64	18.82
25-34	646	31	28	17.20	17	17	19.77	17	28	18.52	63	76	31.03	265	104	36.35
35-44	396	23	46	20.12	13	15	16.28	18	21	16.05	26	46	16.07	106	82	18.52
45-54	292	8	28	10.49	16	18	19.77	16	32	19.75	14	26	8.93	68	66	13.20
55-64	240	11	33	12.83	14	17	18.02	20	23	17.70	12	20	7.14	35	55	8.87
65+	231	23	42	18.95	10	12	12.79	12	44	23.04	21	24	10.04	20	23	4.24
TOTAL	2221	131	212	100.00	86	86	100.00	90	153	100.00	183	265	100.00	621	394	100.00

Note: Total % indicates the percentage of patients per age category admitted to each hospital

 Compiled from: Ontario Ministry of Health, Information and Systems Division, Information Resources and Services Branch, Mental Health Statistics,
 Table ADM07

Exhibit 6.2

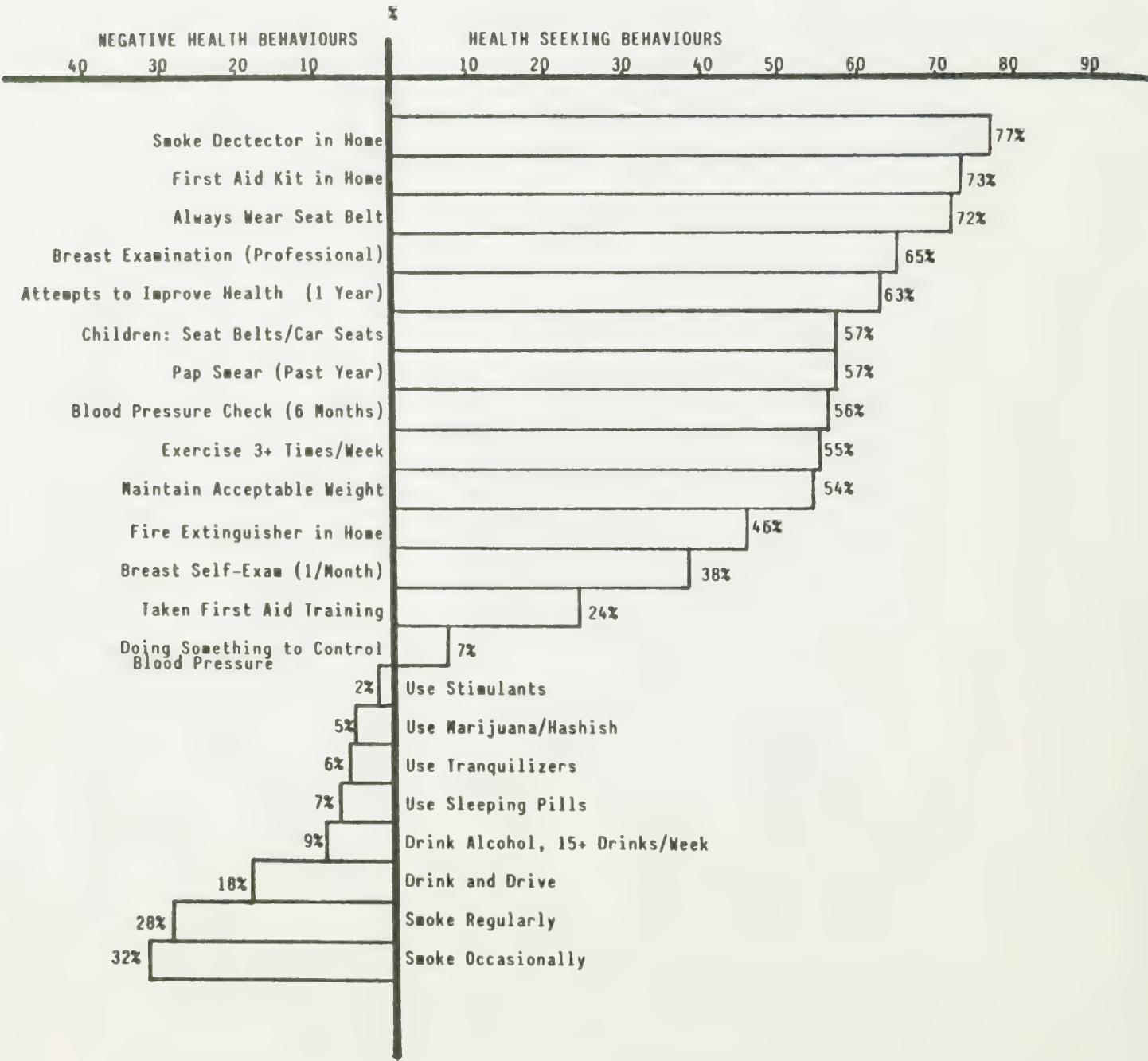
DISCHARGES BY DIAGNOSIS
Hamilton Psychiatric Hospital

Diagnosis (ICD9)	1979			1986		
	# Male	# Female	Total %	# Male	# Female	Total %
291 Alcoholic Psychoses	10	5	1.81	5	2	0.77
292 Drug Psychoses	3	4	0.85	12	0	1.31
293/294 Other Organic Psychoses	7	8	1.81	5	5	1.09
295 Schizophrenia	242	107	42.20	262	155	45.57
296 Affective Disorders	55	54	13.18	67	56	13.44
297 Paranoid States	7	4	1.33	7	9	1.75
298/299 Other Non-Organic Psychoses	22	9	3.75	11	17	3.06
Total With Psychoses	346	191	64.93	369	244	66.99
300 Neurotic Disorders	23	51	8.95	16	29	4.92
301 Personality Disorders	74	58	15.96	66	43	11.91
303 Alcoholism	8	2	1.21	15	6	2.30
304/305 Drug Dependence/ Abuse	8	2	1.21	15	4	2.08
308 Acute Reaction to Stress	6	3	1.09	12	14	2.84
309 Adjustment Reaction	11	4	1.81	17	15	3.50
313 Emotional Disturbance Childhood/Adolescence	0	2	0.25	0	0	0.00
302/306/307/310/311/312 /316 Non-Psychotic Disorders	19	5	2.90	11	2	1.42
317/318/319 Retardation	8	6	1.69	25	12	4.04
Total Without Psychoses	157	133	35.07	177	125	33.01
GRAND TOTAL	503	324	100.00	546	369	100.00

Source: Hamilton Psychiatric Hospital, Psychiatry, Drs Gary Miller & Barry Humphrey

Exhibit 6.3

PERCENTAGE OF ONTARIO RESIDENTS PRACTISING POSITIVE
AND NEGATIVE HEALTH BEHAVIOURS, 1985



Source: From Health Promotion Survey, Health and Welfare Canada, 1985.

Reprinted in Spasoff, R.A. et al. 1987. Health for all Ontario: Report of the Panel on Health Goals for Ontario. Ontario Ministry of Health. [Exhibit 11, p.28]

TYPES OF PROBLEM SUBSTANCES* AND AGENCY

# OF AGENCY CLIENTS	ALCOHOL n(%)	ANTI- DEP. n(%)	M. BARB. n(%)	N-M BARB. n(%)	CANNABIS n(%)	COCAINE n(%)	HALLUC. n(%)	N-M NARC. n(%)	M. NARC. n(%)	SOLVENT n(%)	N-M STIM. n(%)	M. STIM. n(%)	TOBACCO n(%)	M. TRANQ. n(%)	N-M TRANQ. n(%)	VOLATILE NITRATES n(%)
ADAS 66	53(80.3)	0(0)	0(0)	0(0)	25(37.9)	11(16.7)	0(0)	0(0)	7(10.6)	0(0)	0(0)	0(0)	0(0)	5(7.6)	0(0)	1(1.5)
AY 47	30(63.8)	0(0)	0(0)	0(0)	25(53.2)	13(27.7)	10(21.3)	1(2.1)	0(0)	1(2.1)	3(6.4)	0(0)	0(0)	0(0)	0(0)	0(0)
BPL 47	45(95.8)	1(2.1)	1(2.1)	0(0)	8(17.0)	4(8.5)	1(2.1)	0(0)	3(6.4)	1(2.1)	1(2.1)	2(4.3)	6(12.8)	0(0)	0(0)	0(0)
MEH 53	49(92.4)	3(5.7)	4(7.6)	5(9.4)	18(34.0)	12(22.6)	8(15.1)	7(13.2)	12(22.6)	3(5.7)	6(11.3)	5(9.4)	9(17.0)	14(26.4)	7(13.2)	0(0)
WAY 38	38(100.0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(2.6)	0(0)	0(0)	0(0)	0(0)	0(0)	1(2.6)
TOTAL 247 SAMPLE	212(85.8)	4(1.6)	5(2.0)	5(2.0)	76(30.8)	39(15.8)	19(7.7)	8(3.2)	22(8.9)	6(2.4)	10(4.1)	7(2.8)	15(6.1)	19(7.7)	7(2.8)	2(0.8)

*indicates that both client and counsellor attribute substance(s) to client's seeking assistance.

¹Study totals have been adjusted to prevent double-counting of individuals who attended more than one agency.

Note: The 247 person sample includes all those who, between July 1 and Dec. 31, 1987, presented to at least one of the five agencies and remained involved long enough that a treatment plan was developed and initiated by the client.

M: medical use, i.e. prescribed or recommended by a physician

N-M: non-medical, i.e. obtained from non-professional sources ("on the street")

AGENCY LEGEND

ADAS- Alcohol and Drug Assessment Services, assessment/referral

AY- Alternatives for Youth, outpatient counselling

BPL- Bold Park Lodge, long term residential

MEL- Mary Ellis House, long term residential

WAY- Wayside House, long term residential

SOURCE: Mike Devillaer. July 1988. Client-Centred Community Needs Assessment in Hamilton-Wentworth 1987, Hamilton: Addiction Research Foundation.

Appendix I

Cautions in interpreting data

Appendix I: Cautions in Interpreting Data in the Fact Book

At present there are three types of data which comprise the Fact Book: mortality/Morbidity data; utilization rates under treatment and social indicators. Each data type has differing advantages and disadvantages which influence their appropriateness and quality. Other types of data, and their advantages and disadvantages are outlined by Chambers et.al. (1983). A summary of the advantages and disadvantages of the data types used in the Fact Book are as follows.

A.1 Mortality/Morbidity (e.g. disease-specific mortality, hospital discharges by diagnosis)

<u>Advantages</u>	<u>Disadvantages</u>
1. Readily available and inexpensive access;	1. Residence classification unreliable (e.g. location of death may not be place where individual lived most of life);
2. Easily communicated to health professionals;	2. Problems of repeatability in assigning codes (e.g. ICDA diagnostic codes);
3. Trends in measures often straightforward;	3. Lack of continuity in trends and changes in coding rules resulting from revisions of ICDA;
4. Usually amenable to mathematical index (rate) construction;	4. Variations in medical terminology;
5. Allows comparison of local area with other jurisdictions;	5. Differences in thoroughness in completing medical cause of death certification and morbid events in hospitals and communities;
6. Data for several years avoids basing planning on data of an aberrant year;	6. Difficulties in establishing the correct cause of death and diagnoses;
7. Can be used to monitor effects of intervention.	7. May be outdated;
	8. Often incidence not prevalence or vice versa, e.g., psychiatric admissions;
	9. Overlapping jurisdictions.

A.2 Utilization/Rates Under Treatment (e.g. therapeutic abortions, nutrition counselling per patient in diabetic day care)

Advantages

1. Availability and low cost;
2. Usually reliable if financial incentive to complete forms and/or to report performance;
3. Can be used to compare utilization across facilities, regions and time;
4. Can be used to monitor effects of intervention(s).

Disadvantages

1. May be inaccessible or poorly reported (under reporting is common);
2. Coding may vary from center to center, making comparison difficult;
3. May be "overestimates" of illness (psuedo-morbidity);
4. May be outdated;
5. May be inaccurate because of overlapping jurisdictions for reporting;
6. May be under-reporting of stigmatizing disorders (e.g. VD).

A.3 Social Indicators (e.g. income levels of families, worker's compensation)

Advantages

1. Readily available and inexpensive to assess;
2. Can be used to monitor the effects of intervention.

Disadvantages

1. May be grossly outdated, as most data are collected at 10 year intervals (the census) (1951, '61, '71, '81);
2. Measures like age, sex, or date of birth are often inaccurate. Frequently inaccurate and complex measures include income, education and employment;
3. Often only incidence (new characteristics/problems of persons at a given point in time) and not prevalence (total number of persons with characteristics/problems at a given point in time); or prevalence not incidence;
4. Relationships between health and social indicators are often tenuous;
5. Comparisons across jurisdictions often impossible because of overlapping jurisdictions or lack of comparable data about each jurisdiction.

Appendix II

Additional and forthcoming resources

APPENDIX II ADDITIONAL AND FORTHCOMING RESOURCES

A brief annotated bibliography of health-related research programs whose results are due to be released in the next few months is provided below. A few datasets for which information could not be collected in time for inclusion in this edition of the Fact Book have also been included below.

I.

Project title: North Hamilton Community Health Survey

Principal investigator(s): Dr. J. Feightner
Dr. J.J. Rice

Organization(s): North Hamilton Community Health Centre
McMaster Faculty of Health Sciences

Anticipated release date: Fall of 1988

Synopsis: Survey of over 500 randomly selected households using a standardized questionnaire containing 122 questions, providing data in eight areas: respondent profile, self-perceived health status, psychological well-being, burden of illness, lifestyle and health issues, health maintenance and prevention, health care utilization, and social networks. This work focussed on the North End of Hamilton [pop. aprox 5,812 (1981 census)], and was conducted during the summer of 1986 on behalf of the North Hamilton Community Health Centre.

II.

Project title: Services for Seniors Study

Principal investigator(s): Elsie German

Organization(s): Hamilton-Wentworth District Health Council
Regional Municipality of Hamilton-Wentworth

Anticipated release date: Fall of 1988

Synopsis: The Services for Seniors study was a 2.5 year investigation of the use of existing health and social service programs for the elderly in the Region. It has attempted to determine the appropriateness of existing service and accommodation availability, the extent of overlap in service provision, and the possible existence

of gaps in the continuum of care for the elderly. The study has comprised three surveys: a bed accomodation and waiting list survey, an agencies and government representatives as key informants survey, and a senoir citizens as key informants survey. The study reports on the findings of these surveys as well as providing an historical perspective on the evolution of services for seniors in the Province and Region. Community support services, information dissemination, medical and psychiatric services, education, and housing are also considered.

III.

Project title: Report on Health Indicators in Ontario

Principal investigator(s): Lily Eastridge

Organization(s): Ontario Ministry of Health, Public Health Branch

Anticipated release date: Fall/Winter 1988

IV.

Project title: Neighbourhood Smoking Survey

Principal investigator(s): Dr. Harry Shannon

Organization(s): Faculty of Health Sciences, McMaster University
(Clinical Epidemiology and Biostatistics)

Anticipated release date: material on the prevalence of smoking by age group, gender and geography (c.1980) to be included in the next edition of the Fact Book

V.

Project title: Statistical Report on Community Health

Principal investigator(s):

Organization(s): Ontario Ministry of Health, Community Health Programs Branch

Anticipated release date: Winter/Spring 1989

Synopsis: Follow-up to the 1984 report in revised format

VI.

Project title: A Description of the Social Assistance System in
Hamilton-Wentworth

Principal investigator(s): Jane Opie, Gloria DeSantis

Organization(s): Social Planning and Research Council of
Hamilton and District

Release date: August 1988

Synopsis: Description and holistic analysis of the local
social assistance network

Appendix iii

The Health Priorities Analysis Unit
Synopsis of activities and committee membership lists



THE HEALTH PRIORITIES ANALYSIS UNIT (H.P.A.U.)

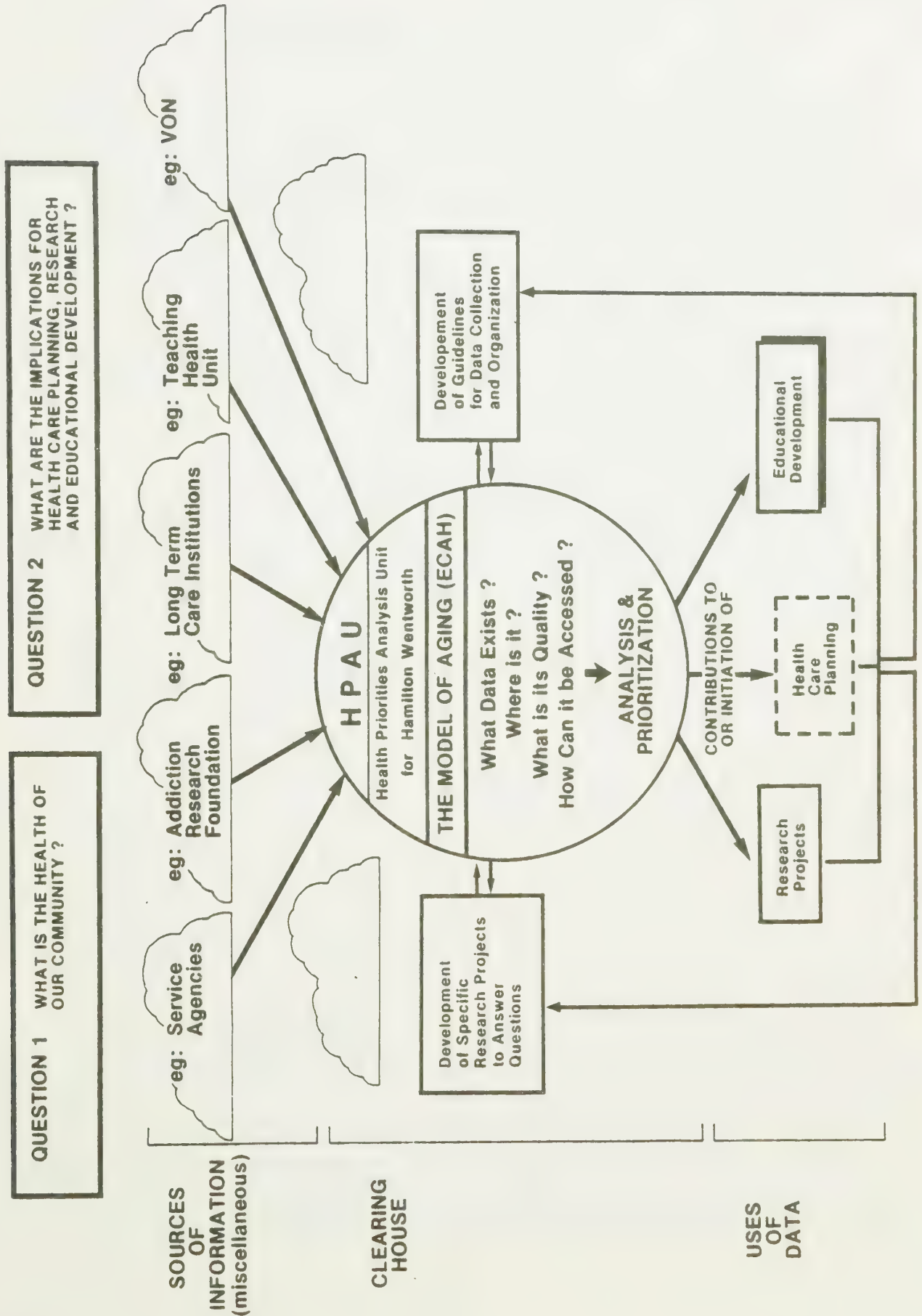
The H.P.A.U. is a health information unit in the Educational Centre for Aging and Health which is actively establishing working relationships with information sources in the Community, the University and Regional Government. Its role is to foster and promote advances in education and research in health and health care by encouraging the development of systems for improving access to and use of reliable information concerning health needs and trends in the community.

In pursuit of this goal the H.P.A.U. is developing strategies for:

1. Identification, generation and sharing of population based health related information including:
 - identification and registration of existing health information sources in full collaboration with those sources
 - encouraging sharing of population based information for purposes of improving education of health professionals, research and health planning
 - encouraging and facilitating acquisition of health information and, when indicated, assisting in the identification of expertise and guidance in the compilation of data.
2. Information management including:
 - encouraging and facilitating analysis and verification of existing or new data and prioritizing health needs based on data analysis
 - translating and displaying information in an understandable form to assist in education, research and health care planning
 - to maintain links among information sources and educational research and health care planners to foster and facilitate continuity of information availability and utilization to assure that these activities continue to be current, relevant and of high quality.

For further information contact: The Health Priorities Analysis Unit,
McMaster University Medical Centre, Room 2J3, Hamilton, Ontario L8N 3Z5
tele: (416) 525-9140, ext. 2254

After April 30, 1988: 25 Main Street West, Hamilton, Ontario L8P 1H1



HEALTH PRIORITIES ANALYSIS UNIT
SUMMARY OF 1988 ACTIVITIES

1. Fact Book on the health status of Hamilton-Wentworth residents

The HPAU is currently working with Health Department personnel to update the Fact Book on the Health Status of Citizens in the Regional Municipality of Hamilton-Wentworth. The fact book is a collection of available information on health status gleaned from routinely collected data and from special reports, much of which has not previously been widely disseminated.

The fact book will be made available to students, educators, researchers and community groups, and is expected to be a valuable resource in the identification of information sources and in facilitating communication and coordination of health-related activities in the region.

2. Inventory of local health-related datasets

In keeping with the educational mandate of the HPAU, we have undertaken to produce an inventory of local health-related datasets to facilitate the assessment of community needs, and contribute to the development of educational programs that address these needs. We hope to eventually develop an inventory of sufficient breadth and quality to assist in the prioritization of community needs for educational and resource planning. It is understood that this will require a quality and level of standardization amongst datasets (in geography and in key identifiers) that is not currently available.

Two survey questionnaires were designed and edited as instruments to identify the number, type and quality of available community data sets. The first consisted of a preliminary one page questionnaire distributed in the fall of 1987. It was followed with a more detailed survey instrument mailed to 53 selected agencies and groups in the community. A further 18 of the 25 respondents were interviewed. The results of this pilot project have been collated and computerized for analysis. Our initial findings suggest that, given ambiguities in questionnaire wording and an emphasis on structure rather than content, the current databas is not as practical as had been hoped.

We are currently developing a subject-based inventory using hierarchical keyword structures to provide agency listings along (user) selected topics. Keywords will be compiled from the data entry forms being currently solicited from selected community agencies. Under consideration is a 3 or 5-point scale denoting the degree to which the agency 'focuses' on the selected topic (almost exclusively or primarily versus a few or one field in the database). "Users" of this inventory would be urged to contact the identified agency(ies) directly, avoiding concerns regarding confidentiality which would arise if HPAU was a direct data distributor.

3. PaRCIL

Under the aegis of the Regional Municipality, a major incentive to integrate and computerize geographically-referenced planning and socio-demographic data has been undertaken using geographic information systems. The HPAU has undertaken to assist in exploring the potential integration of the health sector into this project. This will involve a co-ordinated standardization of health data with respect to quality, geography (scale, boundaries), and key identifiers. Initial HPAU involvements in this context have thus far been limited to the regional Department of Health Services.

4. Pilot projects

It is our hope that specific joint cooperative projects will provide the opportunity to cement and animate otherwise formal or "paper" ties between the HPAU and community organizations. Some initiatives have been proposed and/or begun with agencies who sit on our Community Advisory Board and others will be sought. As of June 1988, some of these projects are as follows:

(a) Joint HPAU/SPRC GIS pilot project

Exploring the potential for the application of geographic information systems (GIS) to the routine mapping and analysis of socio-economic and of health and service utilization by neighbourhood within the Hamilton-Wentworth area. A pilot study using three variables from the 1981 census and rudimentary GIS software will determine the advisability of applying this technology to a larger database that the Social Planning and Research Council (SPRC) is acquiring for the production of its censal neighbourhood data catalogue.

(b) Joint HPAU/ARF educational pilot project

Working in cooperation with the Addiction Research Foundation (Hamilton office) to develop an educational module for the McMaster MD and nursing programs tailored specifically to the identification, treatment and wider context of alcoholism. Local data will be used to supplement the literature in outlining the need for a focus on alcohol abuse as a major health problem in North American society, and in the Hamilton-Wentworth region.

(c) HPAU community topic-based inventory pilot project

Solociting questions of concern from local agencies in community health to guide the development of a topic-based inventory of information sources responsive to community needs.

(d) Joint HPAU/PCS community needs prioritization

Exploring joint cooperation with the Placement Coordination Service in the identification of specific priority issues in the community, such as hearing loss or substance abuse among the elderly, to facilitate research and planning on these issues.

5. Established Populations for Epidemiological Studies of the Elderly (EPESE)

The HPAU is working with colleagues at McMaster and the University of Guelph, as well as a number of community participants, on a proposal for a feasibility study in preparation for a larger longitudinal study of the health and social needs of, and predictors of health service utilization among, seniors in the Hamilton-Wentworth region. Emphasis will be placed on nutrition and muskulo-skeletal issues. The study will be undertaken in collaboration with four centres in the United States and in cooperation with the National Institute on Aging.

May, 1988

HEALTH PRIORITIES ANALYSIS UNIT, 25 MAIN STREET WEST, 2nd FLOOR

COMMUNITY ADVISORY BOARD MEMBERSHIP LIST

Dr. Kursch Ahmed,
Systems Manager,
Computation Services Unit,
MUMC,
HSC-2D5
525-9140 Extension 2676

Ms. Molly Anderson,
Executive Director,
VON of Hamilton-Wentworth,
414 Victoria Avenue North,
Hamilton, Ont. L8L 5G8
529-0700

Ms. Joyce Caygill,
Director, Placement Coordination Service,
VON of Hamilton-Wentworth,
414 Victoria Avenue North,
Hamilton, Ont. L8L 5G8
528-1512

Dr. Larry Chambers,
Professor, Clinical Epidemiology and Biostatistics,
Epidemiology Consultant, Department of Health Services,
Regional Municipality of Hamilton-Wentworth,
25 Main Street West, 4th Floor, P.O. Box 897,
Hamilton, Ontario L8N 3P6
521-4807

Ms. Gloria DeSantis,
Research Director,
Social Planning and Research Council of Hamilton & District,
155 James Street South, Suite 602,
Hamilton, Ont. L8P 3A4
522-1148

Mr. Mike DeVillaer,
Consultant,
Addiction Research Foundation,
20 Hughson Street South, Suite 508,
Hamilton, Ont. L8N 2A1
525-1250

Mr. John Gartner,
Director of Regional Planning,
Regional Municipality of Hamilton-Wentworth,
119 King Street West, P.O. Box 910,
Hamilton Ont. L8N 3V9
526-4210

Dr. Barry Humphrey,
Chairperson, Psychiatric Network Management
Information System for Hamilton-Wentworth,
Chief of Staff, Hamilton Psychiatric Hospital,
West 5th & Fennell Avenue, Box 585,
Hamilton, Ont. L8N 3K7
388-2511 Extension 252

Ms. Anne Kennedy,
Public Health Nutritionist,
Department of Health Services,
Regional Municipality of Hamilton-Wentworth,
25 Main Street West, P.O. Box 897,
Hamilton, Ont. L8N 3P6
521-4806

Ms. Gail MacKean,
 Assistant Executive Director,
 Hamilton-Wentworth District Health Council,
 P.O. Box 2085, Station A, M.P.O.,
 Hamilton, Ont. L8N 3R5
 389-1321

Mrs. Susan McClellan,
 Assistant to the Executive Director,
 St. Peter's Hospital,
 88 Maplewood Street,
 Hamilton, Ont. L8M 1W9
 549-6525 Extension 344

Mr. Sam Miller,
 Vice-President of Communications & Information Systems,
 Chedoke-McMaster Hospitals,
 MUMC,
 HSC-2E33
 525-9140 Extension 5388

Dr. Richard Pickering,
 Interim Director,
 Health Priorities Analysis Unit,
 25 Main Street West, 2nd Floor, P.O. Box 897,
 Hamilton, Ont. L8N 3P6
 572-7970
 (MUMC: 525-9140 ext. 2159)

Mr. Blake Poland,
 Research Assistant, Health Priorities Analysis Unit,
 25 Main Street West, 2nd Floor, P.O. Box 897,
 Hamilton, Ont. L8N 3P6
 572-7970

Dr. Walter Rosser,
 Chairperson, Department of Family Medicine,
 MUMC,
 HSC-2V5
 525-9140 Extension 6195

Mr. Michael Schuster,
 Commissioner of Social Services,
 Regional Municipality of Hamilton-Wentworth,
 119 King Street West, 15th Floor, P.O. Box 910,
 Hamilton, Ont. L8N 3V9
 526-4380

Dr. Irene Turpie,
 Geriatric Evaluation Unit,
 St. Joseph's Hospital,
 50 Charlton Avenue East,
 Hamilton, Ont. L8M 4A6
 522-4941 Extension 6048

Mr. Mike Cillis,
 Ministry of Community and Social Services,
 119 King St. W., Box 2112
 Hamilton, Ont. L8M 3Z9
 521-7665

H.P.A.U.EDUCATION, RESEARCH AND PLANNING ADVISORY GROUPMEMBERSHIP LIST

Dr. K. Ahmed	Computation Services
Dr. R. Bloch	M.D. Undergraduate Programme
Ms. P. Caulfield	Nursing Education Programme and Clinical Teaching Unit
Dr. L. Chambers	Professor, Clinical Epidemiology and Biostatistics Epidemiology Consultant, Hamilton- Wentworth Department of Health Services
Mr. T. Flemming	Health Sciences Library
Dr. E. Lindsay	Continuing Health Science Education
Dr. J. Lomas	C.H.E.P.A. (Centre for Health Economics and Policy Analysis)
Dr. H. Munroe-Blum	Clinical Epidemiology & Biostatistics Psychiatry Data Base
Dr. V. Neufeld	Associate Dean for Education
Dr. R. Pickering	Interim Director, HPAU
Mr. B. Poland	Research Assistant, HPAU
Dr. W. Rosser	Chairman, Family Medicine
Ms. W. Torresin	OT/PT Programme
Dr. P. Tugwell	Chairman, Clinical Epidemiology & Biostatistics
Dr. S. Walter	Graduate Programme DME/M.HSc.
Mr. J. Wilson	Ministry of Community & Social Services

Appendix IV

- Fact Book user questionnaire

APPENDIX IV

FACT BOOK USER QUESTIONNAIRE

1. How would you describe yourself?
- ☐ Student
☐ Educator
☐ Community agency
☐ Library
☐ Government agency
☐ Other (please specify: _____)
2. Have you made specific use of the Fact Book for: (please elaborate)
- (a) education _____
- (b) service _____
- (c) research _____
3. Did the Fact Book alter your approach to or thinking on an issue? If so, how? (Or if not, why not?)
- _____
- _____
- _____
- _____
- _____
- _____
4. What is your overall impression of the Fact Book with respect to each type of use identified below:
- Education: poor 1 2 3 4 5 very favourable
 Service: poor 1 2 3 4 5 very favourable
 Research: poor 1 2 3 4 5 very favourable
5. Please rate the sections of the Fact Book according to how helpful they were to you in each type of use, as identified below, (where 1 = not very helpful and 5 = very helpful, and NA = not consulted).
- | Education | Service | Research | |
|-----------|---------|----------|-------------------------|
| _____ | _____ | _____ | Introduction |
| _____ | _____ | _____ | Socio-demographic |
| _____ | _____ | _____ | Health status |
| _____ | _____ | _____ | Preventive PHC |
| _____ | _____ | _____ | Community H Protection |
| _____ | _____ | _____ | Personal & Social Dev't |
| _____ | _____ | _____ | Appendices |

677

6. How would you evaluate the material in the Fact Book?

awkward, confusing	1	2	3	4	5	user-friendly
poorly documented	1	2	3	4	5	well documented
poorly organized	1	2	3	4	5	well organized

7. How did you find out about the Fact Book?

____ colleague
____ course bibliography
____ ECAH/HPAU newsletter
____ Other: _____

8. Your comments and suggestions regarding the content, presentation and organization of the fact book would be most appreciated.

PLEASE DETACH AND RETURN TO: Health Priorities Analysis Unit
25 Main Street West, 2nd floor
P.O. Box 897
Hamilton, Ontario
L8N 3P6

[Inquiries welcome: 572-7970]

HAMILTON PUBLIC LIBRARY



3 2022 21333913 4

677